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DRUG & CHEMICAL MARKETS

Established 1914

A Weekly Business Paper for Those Who Make, Sell, or Buy
Chemicals, Dyestuffs, Drugs, Essential and Fatty Oils

VOLUME XIII.

NEW YORK, JULY 25, 1923

No. 4



ACETIC ANHYDRIDE
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CALCIUM CHLORIDE
CARBON BISULPHIDE
CARBON TETRACHLORIDE
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In This Issue { Selling Chemicals in China
Court Protects Patent Formulas



Art—"The practical application of knowledge or natural ability, skill and dexterity."

Funk & Wagnall's Standard Dictionary

The Earl of Stafford Going to Execution

By Paul Delaroche
(1797-1856)

THE EARL OF STAFFORD, whose activities and political successes had stirred the jealousy of his fellow peers, was sentenced to death by a court composed of them. The compassion of weak minded Charles I did not save the Earl, who, in 1641, intrepidly met his death in the famous Tower of London.

Paul Delaroche executed this painting in 1835. It hung in Stafford House, the home of the Duke of Sutherland, a descendant of the Earl of Stafford, until 1912 when Sir William Lever purchased Stafford House and presented it as a museum to the British Nation.

Paul Delaroche stands supreme in the portrayal of historical incidents. His "Death of Queen Elizabeth" and others of his works hang in the Louvre. The exquisite beauty of Delaroche's works, their popularity and his fame are due to his "practical application of his knowledge and his natural ability or dexterity"—in short, his art.

In manner, not in degree of perfection, does the art of Delaroche differ from the art of those engaged in tasks less aesthetic perhaps, but contributing in a greater degree to the advancement of civilization, and decidedly more essential to the health and comfort of mankind.

The art of the scientist, the American Chemist, by "practical application of knowledge and natural ability or dexterity" has created medicine to heal our wounds, dyes to beautify our clothes and perfumes to gratify our senses—all from coal tar—which in Delaroche's time was virtually unknown.

The chemical art has already yielded great boons to mankind and holds forth prodigious possibilities for a healthier, more beautiful and more comfortable world.

This is the second of a series of advertisements featuring well known paintings, hanging either in the home of John F. Gueney, Chairman of the Board of Monsanto Chemical Works, or in the general offices of the company in St. Louis.

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40 Rector Street



New York, N. Y.

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DRUG & CHEMICAL MARKETS

3 PARK PLACE, NEW YORK

VOLUME XIII, NUMBER 4

[JULY 25, 1923]

PROSPERITY A LITTLE SHY

A marked decline in wholesale prices in June, the curtailment of production in cotton goods centers, the weakness of zinc, lead and copper, and the depression in the soft coal industry because of a recession in some manufacturing districts are signs of a slowing down in business, but whether they are due to summer dullness, or are an indication that the recent shortage of supplies has been made up is a disputed question. "The Bache Review," discussing the situation from the Wall street point of view believes that business men are saner than during the early part of Spring when there were signs of a runaway demand for goods at rising prices, and when there were some indications of entrance upon a speculative and dangerous era in the trade boom.

Reports from the West, on the other hand, are very optimistic. Marshall Field & Co., say that freight traffic in June set a new high record, that the industrial output is above the season's normal average and is being absorbed immediately, that there is an absence of suspensions and cancellations (which usually indicate in advance a shrinkage of consumption), that the outlook is favorable for good crops, and reasonable money rates, while labor is fully employed in most lines.

It can be safely said that the failures in Wall street do not reflect general business conditions, nor does the inability of Europe to buy lavishly mean the closing down of American factories. Conditions in different industries are unbalanced. Labor is making demands in the building trades that cannot be met except by a few speculators anxious to finish structures in order to sell them while the boom is still in progress. The falling off in the demand for non-ferrous metals has thrown miners out of work in Kansas and Missouri, and a lack of buying power on the part of consumers has lessened the demand for cotton goods. These spotty depressions will right themselves, however, with Fall buying and if labor can be held in check and not allowed to force prices up through higher wages, Prosperity will lose her timidity and come out in the open again.

CONDITIONS IN GERMANY

Unrest in Germany is becoming more pronounced with advancing prices. Riots have occurred in some districts, already, and with the growing difficulty of calculating costs the discussions between employers and the unions show increasing ani-

mosity. It has become necessary to call upon the Minister of Labor to decide the question of wages with every new decline in the value of the mark. Negotiations are in progress to enlarge the scope of the Cost of Living Index and publish it weekly. Salaries and wages are to be paid on a sliding scale, using as a basis the cost of living derived from the index, plus 25 per cent of the difference between this index and the Official Wholesale Index number. The fluctuations in the market are followed closely in the Official Wholesale Index and in a measure it represents the coming advances in commodities at retail.

In spite of the occupation of the Ruhr, few industries have suffered for want of raw materials or coal, owing to the facilities for obtaining supplies from other countries, particularly from England where the German industrialists have placed large deposits of gold. The dye and chemical industries transferred large stocks to plants and warehouses in unoccupied Germany, and also arranged with companies in Switzerland, Poland and Sweden for the manufacture of chemicals when ordered for immediate delivery. The market has been rather nervous owing to the fluctuations in the mark and the new Government order restricting trade in foreign exchange. Prices of chemicals have stiffened again with the recent slump in the value of the mark and there is little chance of a reduction. Manufacturers are selling on a gold mark basis, and the German Dye Cartel has adopted the same plan. Other factors which will tend to advance prices are higher wages and freight rates.

German exports will be affected probably by scarcity of money and decreasing stocks of chemicals, including potash, caustic soda, and caustic potash. Conditions have favored consolidation of companies, and small manufacturers are becoming allied with larger organizations which in turn form Interessengemeinschaften for special lines of production, giving the industry strength to meet competition in the world's markets.

Germany is buying from the United States about twice as much in value as she is selling to us. The United States is importing 20 per cent less in value from Germany than before the war, while the quantity of goods is probably not more than half. In pre-war years Germany sold to the United States 55 per cent as much as it purchased. Now she is selling a little less than 50 per cent. During the last eleven months only 3 per cent of our total imports came from Germany, compared with 10 per cent in 1914, while 7.5 per cent of our exports went to Germany, compared with 14.3 per cent in

1914. These figures indicate that while the trade of the United States with Germany is becoming more nearly normal, the total volume of American business with Germany is much less important than in former years.

HOW TO WIN CHINESE TRADE

American manufacturers seeking business in China have depended too much upon salesmanship, and have failed to appreciate the necessity for conforming to Chinese customs and business methods of centuries past, which cannot be swept aside in the breezy way of the American traveling man. In China technical knowledge and the ability to instruct the customer in the use of products are essential and cannot be replaced by any other methods. Smartness alone cannot win Chinese trade, and many firms have abandoned the field after expending considerable sums in attempts to place their goods in competition with British and German agents who adopted the customs of the country.

Now come the Russian fur dealers and offer us dik dik, the skin of a small animal which is popular with the women for summer wear, thereby adding to the richness of international language which has already supplied us with divi divi, a tanning extract made from the pods of the divi divi tree of Venezuela; kava kava, a shrub from which natives of the Far East obtain a narcotic beverage and used by American manufacturers of medicinals; agar agar made from seaweed and used medicinally; and ylang ylang, which perfumers obtain from the fragrant flowers of the Philippine ylang ylang tree. Who will add to the list? The contest is open only for similar double barreled words.

The proposed standardization of dyes will be welcomed by consumers because tests will be made to show the resistance of colors to light or washing. It will be possible to tell for what purpose the dye is adapted, and if fastness is requisite the consumer can pick the color he needs without risk of having the goods returned because the dye faded or "ran." The committee in charge includes textile manufacturers, textile chemists, and the Dye Section of American Chemical Society, as well as dye makers. In examining dyes the same tests will be used by manufacturers and consumers, and definite specifications will be used in buying and selling colors.

German patents filed at Washington were characterized by a witness in the suit against the Chemical Foundation as possessing only a nuisance value by which the Germans could prosecute infringements. They refused to manufacture in the United States and the filing of patents prevented American companies using the processes. Other witnesses, chemists of standing who have had years of experience, told of the impossibility of working the Haber patents and the difficulties encountered in making dyes under the patents sold by the U. S.

Government. Even with years of research work and the expenditure of hundreds of thousands, some of these dyes have not been brought to satisfactory grade. The testimony proves the worthlessness of the patents. It looks as if the Chemical Foundation had a good case against the Government to recover the \$250,000 paid for the "junk" sold as patents worth millions.

Many Men: Many Minds

C. W. Miller, president Davison Chemical Co., said in his annual report to stockholders: "The annual consumption of agricultural chemicals before the war was approximately 7,500,000 tons and last year was 4,800,000. This year it is estimated it will reach 6,000,000 and in 1924 we should find our industry on a normal basis. Your company has the largest and most economical acid plant in the country. The Cuban mine is still closed down awaiting reorganization of the railroad company with which we have contracts for haulage and power. Interests connected with General Electric Co. have taken over the power end of the Cienfuegos company and this situation should be worked out in near future."

Manufactures form from 75 per cent to 90 per cent of our exports to the tropical countries of the world, says the National City Bank of New York. The share which raw material for manufacturing forms of our imports is now practically 40 per cent as against 3½ per cent a century ago, 10 per cent in 1865, 20 per cent in 1880, 32 per cent in 1900 and 35 per cent in the year immediately preceding the war; while on the other hand finished manufactures formed in May of the current year 42 per cent of our exports as against 6 per cent a century ago, 15 per cent in 1870, 16 per cent in 1890, 24 per cent in 1900 and 32 per cent in the year preceding the war.

LOOK WHO'S HERE



—Copyright by The Chicago Tribune

Selling Chemicals in China

Importance of Selecting the Right Agent, Shipping Samples for Comparison with European Products and Packing Goods in Proper Containers

By ALFRED KROEGER, of Carlowitz & Co., Shanghai

FOREIGN trade in China is mainly carried on via Shanghai, the great Chinese entrepot, which in importance as a Far Eastern commercial centre vies with Hongkong, as it is the channel through which a vast amount of merchandise passes into the interior of China. In America especially, people are grossly ignorant of conditions extant here and it is necessary to give a short statement of the way in which business in Shanghai is carried on. This description also applies to the other mercantile centres of China.

Language, customs, and inherent peculiarities of trade have been and are still responsible for foreign firms in China being forced to employ an intermediary in their business relations. The most important part of the mercantile machinery is known as the "compradore" system; it is the method by which all inter-Chinese business is transacted through a Chinese, called the compradore. He is usually a man of some standing and affluence in the native community. The compradore has his own staff, both indoor and outdoor; he may receive a fixed salary, or commission, or both in proportion to the business done through or by him.

Every foreign firm established in China has its own Chinese name, called a "hong" name. Business is separated into various departments, each department being under expert management. The hand-in-hand working with the Chinese staff is necessary and the success of any business transacted depends largely on this co-operation. It goes without saying that the "hong" name is very important. There are names well-known to all Chinese for fifty years. It is at present virtually impossible for American manufacturers to enter into direct relationship with Chinese customers on a large scale. The help of the local foreign firm is still required. The Chinese have manners, customs, ideas, and requirements different from our own, and nobody can hope to sell to the Chinese by writing letters or by sending out salesmen with catalogues and literature. It is necessary to actually show the Chinese how to use the articles manufacturers wish to sell them. The only way to do business with China is to appoint a representative or to establish an office. Should a representative be appointed, it is wise to bear always in mind the five following points:

- (1) Base the decision as to the granting of an agency on the needs of the future as well as on the present.
- (2) In choosing an agent be neither hasty nor lazy in making investigations.
- (3) Make the most of the credit man's training and abilities.
- (4) The square deal (the equitable contract) is the only contract anyone can afford to offer.
- (5) Base the contract on the best practices in exporting.

Many American business houses have attempted to introduce their products in China, but have failed because the methods employed did not bring returns. Some of the mistakes to be avoided, and a few suggestions that should be helpful to firms contemplating a campaign in China are discussed by Alfred Kroeger, of Shanghai, in the accompanying article. Mr. Kroeger has had long experience in China and the Dutch East Indies. He emphasizes particularly the necessity for care in selecting a representative, proper packing, and quality of the chemicals offered.

Industrial chemicals—Acids are largely imported from Japan. The following are the only exceptions: Boric comes from Germany; carbolic is monopolized by British manufacturers; citric is confined to Italy; hydrochloric and nitric are made locally; oxalic is controlled by German firms.

Potassium products—Germany is holding the field.

Sodium compounds are controlled by a British firm. Only sodium peroxide, sodium perborate, and sodium sulfate are exceptions. Germany and Japan are competitors in this field.

Sulfate of copper is made locally. The raw copper is imported.

Bleaching powder is controlled by Japan. Tartar emetic, zinc dust, acetate of soda, Turkish red oil, antimony salts, tin chloride are supplied by German firms, mostly in connection with aniline dyes.

Hyposulfite of soda, largely used for photographic purposes, comes from Japan. The German product is gradually losing ground.

Phosphorus, red amorphous, yellow phosphorus, sesquisulfide of phosphorus, and chlorate of potash, all used in the match factories, are practically under German control.

Glycerin is imported from England, sometimes also from the Netherlands and America.

Ammonium chloride is chiefly imported from Germany.

Naphthalene balls are imported mainly from Europe. England, Germany, and Belgium are active in this business.

Potassium bichromate for tanneries, is imported from America, although England and Japan share in this trade.

Ammonium sulfate, as a chemical fertilizer, is in the experimental stage in China.

Silicate of soda, chiefly used in the soap factories, is imported from America, with Germany and England as competitors.

Sodium sulfite, dry, for photographic purposes is imported from Germany, one brand being especially well-known in the market.

Acetate of lead is imported from Germany.

Dextrines, chiefly used in the finishing of cloths, are imported from England, although American houses have a small share of this business.

Sulfate of magnesium is imported from Japan; European competition is out of the question.

This list contains the chief industrial chemicals used in China. New products are being gradually introduced, and in course of time China will become a good market for other lines.

An important point is the question of proper packing. The Chinese customs and ideas have to be respected.

and it is a waste of time and money to offer zinc dust in tin-lined cases of 100 lbs. net while the packing asked for is tin-lined cases of 1 picul (equal to 133 1/3 lbs.) net. But such particulars as these cannot be found in books. A local representative has to furnish such particulars and the advice given should be accepted. It is absolutely impossible to try to introduce a new style of packing, even at cheaper rates.

Another point of no less importance is the quality. Sometimes European products are too good for the requirements of the Chinese, and before starting business it is best to send samples of the goods manufactured to the Eastern representative and allow extensive comparisons to be made. New firms do well in introducing their brands with an old establishment "hong", for customers always buy from the importer and not from the manufacturer. In time, however, the name of the factory will become known to consumers.

The general tariff in force since Jan. 1, 1923, mentions a duty of 5 per cent based on the market value less 10 per cent. There are, of course, exceptions to the general tariff, which can be inspected at every Chinese Consulate, or the various Chambers of Commerce.

CHINESE BUY INDIGO IN U. S.

Dr. Francis A. M. Noelting, representative of E. I. du Pont de Nemours & Co., at Shanghai, China, who is in New York on a visit says American manufacturers should endeavor to sell a class of merchandise which appeals to the common people. He says: "Just to give you an idea of the market for such a product. The Chinese laborer wears blue cotton pajamas and jacket almost like a uniform. That means that there are 100,000,000 people who need indigo-dyed materials at least once a year. That indigo they get from America."

"Other essentials to doing successful business with China are deference to Chinese business customs. For example, the Chinese system is one of extended credits with settlements three times a year. Another important thing is continuity of personnel. There is nothing in the world the Chinese hates worse than change of management. If he buys from you, you can win him for your friend and he will come back to you every time, but if he finds a new face in your office he distrusts your firm."

Inspector General of Customs at Shanghai has issued a notification to the effect that after July 1, 1923, all applications for the filing of a trade mark or patent with the Maritime Customs must be accompanied by a Chinese version, in duplicate, of the application and of the description. Any application received after that date without a Chinese translation will not be accepted.

U. S. Tariff Commission has set Sept. 10 for a public hearing in connection with its investigation into sodium nitrate under the flexible provisions of the tariff. The investigation was ordered by the commission in response to an application filed by the American Nitrogen Products Co., Seattle, for an increase of 50 per cent in the present rate of 3c per pound.

Federal Trade Commission has issued a cease and desist order directed to Prichard & Constance, Inc., New York City, manufacturers of cosmetics and toilet articles, to discontinue various co-operative methods of fixing and controlling prices at which its products shall be resold.

The loss on the Chemists' Club building, 52 East 41st st., New York, recently damaged by fire, was covered by insurance.

HAS PROSPERITY REACHED THE PEAK?

Business Conditions Discussed By C. M. Schwab, F. A. Vanderlip, and Government Officials

"The peak of prosperity has just about been reached," says Dr. Joseph S. McCoy, actuary and tax expert for the Treasury Department. "Business may keep up its pace for some time to come," he added, "but profits already are going down for the simple reason that costs of production are mounting out of all proportion to what the business situation warrants. Presently business men will discover that they are doing a great volume of business, but are not obtaining a proportional profit. As soon as they discover that, they will begin curtailing production and reducing their plant expenses, including labor. The United States can't stand prosperity. This sort of thing is repeated over and over again. As soon as business starts going at high speed there is a mad scramble on all sides to push up production costs, labor demands higher wages and raw materials go up. Then there quickly follows a slump."

Chas. M. Schwab, chairman of the Board of Bethlehem Steel Corp., says that business conditions in the country, on the whole, are on a firm and substantial basis and there is no logical reason for all the cautiousness being displayed at the present time. "We have every reason to feel confident of future business," Mr. Schwab continued. "It is only when industry is built up on an artificial foundation that we should think of pulling in our sails and looking for a storm. But I see no ominous clouds on the horizon at the present time. There has been a slackening up in the business of the country, but I maintain this is a good omen."

Frank A. Vanderlip says: "The country is not, to my mind, facing any spirited business boom, but there will be perhaps, steady, orderly activity in all industrial pursuits. The wealth of this country emphasizes that America herself can enjoy exceptional prosperity, notwithstanding what is going on in Europe. Not only is labor more efficient, but modernized methods of manufacture and agriculture tell of the business strides this country enjoys."

A further decline in the general level of wholesale prices is shown for June by information gathered in leading markets of the country by the U. S. Department of Labor through the Bureau of Labor Statistics. Measured by the Bureau's weighted index numbers, which includes 404 commodities or price series, the decrease from May to June was nearly 2 per cent, or from 156 to 153. Chemicals and drugs declined 2 1/4 per cent.

A survey of industrial and commercial movements in June by the Department of Commerce shows that there was a general slowing down from the activity in May. In almost all lines, however, activity was greater than at this time one year ago.

The total number of employees on the payroll in 1,428 representative United States factories was 2,041,000 on June 30 compared with 2,048,000 on May 31 and 1,722,000 on June 30, 1922.

Bradstreet's wholesale price index for July 1 at 142 compares with 145 for June 1 and 101 for July 1, 1922. Dunn's index at 156 for July 1 compares with 158 for June 1 and 144 for July 1, 1922.

Roessler & Hasslacher Chemical Co. in its price list dated July 16, says in part regarding the market situation: "Conditions in our industry continue on a stable basis, and while price fluctuations are apparent in the continued anxiety or necessity of some sellers to get rid of goods, basic conditions are such that we see no

cause for anything but optimism in the future. With few exceptions we find no surplus of stocks and therefore believe we can look forward to continued steady demand."

Federal Reserve Bank, New York, says:

"Production of iron and steel, cement, and petroleum was larger in May than in any previous month, and mill consumption of cotton was close to maximum. The high level of production in these industries, together with increases in practically all other lines, is reflected in an advance of 2 per cent in May in the Federal Reserve Board's index of production in basic industries. This industrial activity has been accompanied by a slight increase of employment at industrial establishments. The demand for labor was also reflected in a larger number of wage advances during the 30-day period ended May 15, than in any earlier month this year, and average weekly earnings in all reporting industries increased by 3.8 per cent."

Irving Bank-Columbia Trust Co. says: "Solid progress has been made toward a more stable credit situation than prevailed a year ago. Banking resources are impregnable, retail trade is well maintained, failures have steadily declined in number, cautious merchandizing has kept most wholesale lines in a good liquid position, employment is gratifyingly steady throughout the country, with less than the normal summertime lull, the carriers are enjoying conspicuous prosperity, and in the main, crop reports are excellent."

Trade Notes and Personals

Sagamore Chemical Co., New York, has changed its name to A. G. F. A. Products.

G. B. Horsfull has joined the sales force of New Jersey Zinc Co., New York, and will travel in the Eastern territory.

British Cellulose & Chemical Corp., England, will build a branch factory in the United States, according to Trade Commissioner Hugh D. Butler, of London.

American Electrochemical Society will hold its Fall meeting at Dayton, O., on Sept. 27-29, with headquarters at Miami Hotel. Dr. Colin G. Fink, Columbia University, N. Y., is secretary.

Western Sheet Glass Co., recently organized to take over the plant and business of Torrance Glass Co., Torrance, Cal., will extend the plant, including new buildings and equipment estimated to cost \$1,000,000. Adolph Sieroty heads the company.

The plant of Uniform Chemical Products, Woodbridge, N. J., subsidiary of Diamond Match Co., was damaged by fire, last week, which destroyed a large quantity of phosphorus. Several thousand kegs of chlorate of potash were threatened.

Carnegie Institute of Technology, Pittsburgh, has awarded degrees of Bachelor of Science in Metallurgical Engineering to Lieuts. Gilbert A. Hoover and John H. Keefe, of the United States Navy. The men were sent there by the U. S. Naval Academy for special training in metallurgy.

Bureau of Labor Statistics of the Department of Labor has compiled comparative employment figures for May and June. The Bureau received replies from 98 chemical plants which showed employment in May to have been, 21,577 decreasing slightly in June to 21,387, about .9 per cent. The payrolls in these plants decreased from \$560,252 in May to \$551,567 in June, about 1.6 per cent.

TEST OF GERMAN PATENT BY COURT ORDER PRODUCES IMPURE PRODUCT

Judge Morris Revokes Permission to Learn Secret Processes Even in Chambers and Rules Out All Questions Relating to Changes Made in German Patents By American Manufacturers—Witnesses for Defense Testify to Worthlessness of Patents Without Expensive Research Work

(Special to DRUG & CHEMICAL MARKETS)

Wilmington, Del., July 25—When Dr. Elmer K. Bolton, chemical director for E. I. du Pont de Nemours & Co., was asked by Col. Henry W. Anderson, special Assistant Attorney General in the suit of the Government against the Chemical Foundation, what modifications had been made in the German patents covering Indanthrene Blue in order to produce a satisfactory dye, the witness refused to answer, and Judge Hugh M. Morris upheld the witness and made another ruling on the question of trade formulae, revoking the permission he had given in the case of Dr. Ernest Volwiler, of Abbott Laboratories whose testimony he heard in chambers before counsel for both sides. He said:

"I failed to appreciate the relevancy and materiality of such testimony when I made my statement with respect to the testimony of Dr. Volwiler the other day. I now decline to direct this witness to answer, and hold, for the first time in this case, that the testimony called for is irrelevant and immaterial, and is not pertinent to the issues in this case. And I make the same ruling with respect to the testimony of Dr. Volwiler."

E. H. Klipstein and Maj. Theodore W. Sill, of E. C. Klipstein & Sons Co., told of the large amount of research work that had been done by the company in attempting to develop patents held by the Chemical Foundation. Mr. Klipstein testified that in preparing synthetic tanning materials he operated under twelve seized German patents and found it necessary to devote much time and money in experiments under them, because the product manufactured under these patents was of poor quality. He declared the patents as recorded by the Germans in Washington to be of little value.

Dr. Moses L. Crossley, Chief Chemist for Calco Chemical Co., of Boundbrook, N. J., testified that his company spent years and scores of thousands of dollars in futile efforts to produce satisfactorily under the German patents as they were registered in Washington.

James Bayard Eliason, comptroller of E. I. du Pont de Nemours & Co., testified that his company had spent nearly \$4,000,000 in research in developing its dye industry.

Morris R. Poucher, of E. I. du Pont de Nemours & Co., the only individual accused in the Government suit, denied the charge that he misrepresented and suppressed facts to induce former President Wilson, Under-Secretary-of-State Polk, and Alien Property Custodian Palmer to make the sale of German patents to the Foundation. Mr. Poucher formerly was vice president of Badische Co., in New York. For thirty years he had represented that company, he testified, but he severed his relations of a business lifetime the instant he heard of the Lusitania sinking.

When word was brought to a meeting of officers of Badische Co. in New York of the destruction of the Lusitania, he said, the elation with which some of these at the meeting greeted the news impelled him to withdraw from the meeting, to pack up and resign within half an hour.

"The Lusitania affair drew the line very sharply," he testified.

The witness said that, far from misrepresenting facts to President Wilson and Mr. Polk, he never even com-

municated with them. Mr. Poucher said the avowed purpose of the German Chemical Trust was to destroy development of an American dye industry so that the German grip on that industry in the United States might be maintained. In this purpose, he said, the German Trust had the support of the German Government.

Mr. Poucher was the last witness for the defense. The Government then offered evidence in rebuttal.

Efforts of Government counsel to summon the president and treasurer of Atmospheric Nitrogen Co., Syracuse, N. Y., failed owing to a ruling by Judge Morris who denied a motion for subpoenas on the ground that the testimony sought would not be proper rebuttal.

Dr. Louis Friedman, employed by Herman A. Metz, contradicted testimony given by Dr. M. L. Crossley, of Calco Chemical Co. Dr. Friedman testified that in his first experiment with the patent, in 1917, he produced cinchophen by strict adherence to the German specifications. He said he made about fifty experiments in three or four weeks, each requiring only six hours after a day spent in manufacturing an intermediate. Dr. Crossley's report on this point was that several days were required.

Judge Morris determined to learn by first hand evidence whether the patents in question were workable under the specification listed in Washington by the Germans, and arranged for an experiment by Dr. Friedman in the laboratories of Swarthmore University, Swarthmore, Pa., under guard of United States Marshal Ball and Deputy Marshal Woodward, who were instructed to keep close vigil over ingredients and equipment used in the experiment.

Drs. Moses L. Crossley and Elmer K. Bolton were designated as observers for the defendant, Dr. H. D. Biggs for the Government, and Dr. Gilbert Alleman, head of the Swarthmore chemistry department, for the Court.

Dr. Friedman completed his experiment in 26 hours and 35 minutes and took the witness stand in Wilmington on Monday. He admitted the unmarketableness of the cinchophen he had produced at Swarthmore. He admitted to a deviation in the first of two experiments, but insisted that he did not consider it a material change from the patent.

Instead of pouring two ingredients simultaneously he had thrown them together one after the other so closely that he believed the action amounted to simultaneousness. He said that in another hour, if called upon by the court to return at a later date, he could remove some of the impurities remaining and achieve a larger yield than he had been able to produce.

His first yield, he said, was 29.6 per cent of the theoretical yield, but he admitted it was not a commercial possibility. His second effort resulted in 14.3 per cent, but of higher quality. Nevertheless, both yields were so small as not to be marketable, a large quantity of tar remaining from each experiment. The yield of the Calco Chemical Co. is larger than either of those developed at the Swarthmore tests. He said that the first batch could be purified to a point of being placed on the market.

Dr. Bolton asserted there was a variation from the patent in the first experiment in the way two ingredients were poured. He presumed the product could be further purified to reach a higher yield. He said that in the other experiment there was a far longer lapse between steps than specified in the formula but, he said, each test showed cinchophen with possibilities of larger yields by further purification.

"From a commercial standpoint," he reported, "the yields are entirely too low to permit of manufacture."

Dr. Crossley, whose testimony has been crossed by that of Dr. Friedman, was the most emphatic of the

critics. He testified that Dr. Friedman had not proceeded entirely in accordance with the patent in the first instance, and that in the second experiment the production, while of higher quality, was of lower yield and a commercial impossibility. He asserted that the cinchophen produced by Dr. Friedman was composed chiefly of tar, "and one couldn't get much cinchophen out of it without a long and tedious procedure. The cost would be considerable."

Judge Morris set Oct. 9 for final arguments and court was adjourned until that date.

Books of Trade Interest

PRACTICAL TANNING. By Allen Rogers, Ph.D., Professor of Industrial Chemistry, Pratt Institute, Brooklyn, N. Y. 683 pages, 8vo., 124 engravings. Published by Henry Carey Baird & Co., New York. 1922.

This book is intended primarily for those interested in the actual production of leather, and deals with the subject from a practical rather than a theoretical standpoint. Hundreds of tested formulas are here, with the best practice in manipulating all kinds of hides and skins. It is clearly brought out why one process is better suited to certain requirements than others, and how first-class results may often be achieved with less waste and with greater facility and speed. Vegetable, mineral, and fatty processes are the subjects of separate chapters; other chapters take up leathers for various purposes, from heavy belting, bag, and harness stock to the lighter velvet and suede products. There is also a chapter on analytical methods.

INDUSTRIAL HYGIENE AND MEDICINE. By E. W. Hope, O. B.E., D.Sc., Medical officer of health for the city and port of Liverpool, in co-laboration with W. Hanna, M.A., M.D., D.P.H., and C. O. Stallybrass, M.D., D.P.H., assistant medical officers for the city and port of Liverpool. 8vo., 704 pages. William Wood and Co., New York. 1923.

The volume is largely based on the knowledge of the causation of industrial disease, and the preventive methods evolved in the light of this knowledge, accumulated by British and other investigators. The movement for the betterment of industrial conditions is international in character, and is one of the functions of the League of Nations. The book is primarily intended for the medical profession, but it is hoped that others engaged in the various aspects of industrial hygiene and welfare will find it of value.

ORGANIC SYNTHESIS, Vol. 2. By James Bryant Conant, Harvard University, Editor-in-Chief. 3 vo., 100 pages. John Wiley & Sons, Inc., New York. 1922.

The second yearly edition of a collection of satisfactory methods for the preparation of organic research chemicals. On the editorial board and as contributors are some of the best posted chemical men in the country. Twenty-five different reagent chemicals, which are not only hard to obtain but are high in price, are discussed and methods of laboratory preparation detailed.

THE CHEMISTRY OF LEATHER MANUFACTURE. By John Arthur Wilson, Chief Chemist, A. F. Gallun & Sons Co., Milwaukee, Wis., and Chairman, Leather Division, American Chemical Society. 330 pages, 8vo. The Chemical Catalog Co., New York. 1923.

Many special investigations were conducted in order to correlate existing data, and these are being reported in this work for the first time. A considerable amount of space has been devoted to the histology of skin and to the physical chemistry of the proteins because of their fundamental bearing on the chemistry of leather manufacture. Analytical methods and practical details of leather manufacture have been given only where they seemed necessary to make the subject clear.

QUOTATIONS ON CHEMICAL STOCKS

Closing Prices for Week Ending July 21

	Bid	Asked		Bid	Asked
Air Reduction	63 3/4	63 1/2	Heyden Chem.	134	..
*Allied Chem. & D. 68 1/2	68 1/2	68 1/2	Hooker Electro	55	65
*Allied Ch. & D., pf. 107 1/2	108 1/2	108 1/2	Hooker Electro, pf..	60	70
*Am. Ag. Ch.	14	14	*Household Products	33 1/4	33 1/2
*Am. Ag. Ch., pf.	35	35 1/2	*Int. Agricult.	2 1/2	3
*Am. Chiclé	113 1/4	12	*Int. Agricult., pf..	17 1/2	18 1/4
*Am. Chiclé, pf.	40	43 1/4	*Int. Nickel, pf.	73	80
*Am. Cot. Oil.	49 1/2	49 1/2	*Int. Nickel, pf.	73 1/4	77 1/4
*Am. Cot. Oil, pf.	143 1/4	153 1/4	*Int. Salt	77 1/4	77 1/4
*Am. Cyan.	48	51	*Mathieson Alk.	44	46
*Am. Cyan., pf.	73	75	Merck & Co., pf.	80	84
*Am. Druggist S.	47 1/2	5	Merrimac	96	..
Am. Glue	82	85	Mulford Co.	29	34
Am. Glue, pf.	124	126 1/4	Mutual Co.	150	..
*Am. Linseed	20	21	*National Lead	117	119 1/4
*Am. Linseed, pf.	40	44	*National Lead, pf. 100 1/4	110 1/4	110 1/4
*Am. Malt	12	13	N. J. Zinc.	152	154
*Am. Zinc	10 1/2	11	Niag. A., pf.	96	100
*Am. Zinc, pf.	36	37	Parke, Davis & Co. 80	..	..
*Atlas Powder	52 1/2	53	Penn Salt	80	..
*Atlas Powd., pf.	84 1/2	90	*People's Gas, Chi..	90	91
By. Prod. Co.	67	72	Procter & Gamble. 124	128	128
Carborundum	135	135 1/4	Procter & Gam., pf. 102	106	106
Carborundum, pf.	115 1/4	116	Royal Bak. Po.	122	130
Casein Co.	60	65	Royal Bak. Po., pf..	98	101
Celluloid Co.	83	90	Sherwin-Williams ..	28 1/2	29 1/4
Celluloid Co., pf.	109 1/2	109 1/2	Stand. Ch.	90	100
Ches. Mfg., pf.	225	235	Swan & Finch.	28	32
Ches. Mfg., pf.	110	115	*Tenn. C. & Chem..	9 1/2	9 1/4
Com'l Sclv. A.	33	35	*Tex. Gulf, Sul.	58 1/2	59
Do B	27	30	Union Carbide	55 1/2	56 1/4
*Corn Products	122 1/4	123	Union Sulphur	80	82
*Corn Products, pf. 117	119	..	*Un. Drug	46 1/4	47 1/4
*Davison Chem.	31	31 1/4	*Un. Drug, 1st pf..	40	47
Dow Chem. non par. 40 1/2	..	..	*Un. Dyewood	40	47
Dow Ch., pf.	96	96	*Un. Dyewood, pf..	51	51 1/2
Du Pont de Nem.	121	121 1/4	Un. Gas Imp., pf..	55 1/2	..
*Du Pt de Nem. Db. 81	81	83	U. S. Gypsum	56	..
Eastman Kodak, pf. 108 1/2	108 1/2	108 1/2	*U. S. Indus. Al.	49 1/4	48 1/4
Eastman Kodak, pf. 108 1/2	108 1/2	108 1/2	*U. S. Indus. Al., pf. 96	100	100
*Freeport Tex., Sul. 12 1/2	12 1/2	12 1/2	*Va.-Car. Ch.	8 1/2	8 1/2
Freeport Tex. Sul., pf. 91	93	..	*Va.-Car. Ch., pf.	23 1/2	24 1/2
*Grasselli	125	133	*V. Vivaudou	18 1/2	18 1/2
*Grasselli, pf.	102	105			
Hercules Powder	100	105			
Hercules Powd., pf. 102	104	..			

*Listed on New York Stock Exchange

New Incorporations

Chemical Industry

Niagara Ammonia Co., New York, 6,000 shares preferred stock \$100 each; 1,000 shares common stock, no par value; active stock, \$1,000. Chemicals. F. Poppe, R. Bennett, Jr., and W. J. Ryan. Attorney, F. Kneir, Albany.

Stellar Drug Co., New York, \$25,000. M. Radi and P. Rudolf. Attorney, E. Spector, 51 Chambers st.

National Carbon Co., Wilmington, Del., \$5,000,000. Own and develop mineral lands. Corporation Service Co.

Hoidseum Chemical Mfg. Co., New York, \$10,000. J. Kronberg, E. Lustgarten, and R. Jacobs. Attorney, P. H. Goldbaum, 276 Fifth ave.

American Aniline Products, Inc., Chicago, \$100,000. To manufacture chemicals and dyes. H. A. Dodge, M. A. West, W. J. Lonergan.

Consuming Industries

Interboro Wet Wash Laundry Co., Brooklyn, \$50,000. K. J., and G. Lefkowitz. Attorney, A. Cohen, 220 Broadway, New York.

Individual Wet Wash, Inc., Wilmington, Del., \$100,000. Guy K. Browning, agent, Fred S. Ecker, and Chas. E. Bittner.

Industrial Milk Processes Corp., Wilmington, Del., \$2,500,000. Dairy products. Corporation Service Co.

Crescent Wet Wash Laundry, Brooklyn, \$25,000. W. J. Hubbard, T. J. Reit, and R. Ehrlich. Attorney, D. D. Levinson, 277 Broadway, New York.

Brunswick Tire Corp., New York, \$100,000. B. E. Bensinger, C. P. Miller, and G. E. Finch. Attorney, Guggenheimer, Untermeyer & Marshall, 120 Broadway.

Henderson Bros., Inc., Dover, Del., \$1,300,000. Steam and general laundry. F. W. Henderson, A. S. Henderson, and John C. Cosgrove. U. S. Corporation Co.

Hope Laundry, Brooklyn, \$25,000. W. Conklin, M. D. Minick, and F. J. Papalo. Attorney, L. J. Martin, 217 Broadway, New York.

Louisiana Glass & Mfg. Co., Monroe, La., \$1,000,000.

Empire Laundry Co., Hartford, Conn., \$100,000. Lawrence A. Howard, Allen K. Smith, and Joseph T. Berry.

Johnson Educator Biscuit Co., Cambridge, Mass., \$2,700,000. Crackers and food products. E. Fred Cullen, Ray W. Crocker, and Peter P. McGrath.

Frantz Caramel Co., Lancaster, Pa., \$160,000. W. L. Frantz and D. R. Frantz. Capital Trust Co. of Delaware.

Big Four Pharmacal Co., Dover, Del., \$600,000. T. L. Croteau.

Financial Notes

Hans Hinrichs Chemical Corp., New York, has increased its capitalization from \$50,000 to \$100,000.

Arnold, Hoffman & Co. have filed judgment for \$162.75 against Glen R. Patton, in New York County.

Mississippi Chemical Co., Memphis, Tenn., has increased its capitalization from \$200,000 to \$300,000.

L. A. Van Dyk has filed judgment in New York County for \$102.85 against Carman Medical Co., Inc.

Household Products Co. has declared the regular quarterly 75c dividend, payable Sept. 1 on stock of record Aug. 15.

John J. Watson, Jr., vice-president and treasurer of International Agricultural Corp., says plans are under way for increasing the company's capital, reducing the bank loans, and furnishing working capital.

Air Reduction Co., New York, through its Board of Directors, has called for payment on Oct. 1, 1923, \$500,000 par value of the outstanding 7 per cent debenture gold bonds, due in 1930. The bonds are callable at 105 and interest.

American International Corp., has liquidated Rosin & Turpentine Export Co., a proprietary company, at approximately its book value. American International's investment (stock owned and advances) in the company was listed in the annual report as \$800,000.

Net profits of United States Smelting, Refining & Mining Co., in June amounted to approximately \$235,000, making the total for the six months ending June 30, about \$1,425,000 (after deducting charges) which is equivalent to \$3.20 per share for the year.

Sales of United Drug Co. in the first six months of the year approximated \$32,000,000, or about \$4,000,000 more than in the corresponding period last year. This is larger than any corresponding period in the company's history. Profits in the first five months of 1922 were about \$800,000 ahead of the same five months of last year.

Edgar E. Kahn Co., druggists' sundries, 20 W. 22nd st., New York, has filed schedules in bankruptcy showing liabilities \$37,769, nominal assets \$56,350, main items being fixtures \$30,000, stock \$13,000, real estate \$8,000, accounts \$5,600. Principal creditors are J. Eisner \$8,000, Chatham and Phenix National Bank \$9,000, Mrs. M. Kahn \$6,100, Edgar E. Kahn \$3,047.

Common stock of E. I. du Pont de Nemours & Co., New York, may be placed on an 8 per cent annual basis at the dividend meeting scheduled next month, according to "Financial America." This stock has been paying 6 per cent annually since May 15, last. Previous to that time, the rate was 8 per cent. The company's earnings are said to be more than sufficient to meet the increase.

Charcoal Iron Co. of America reports for the first five months of 1923, earnings applicable for payment of interest of \$409,656, or at the annual rate of three and one-fourth times interest charges. Orders on the books insure business for the balance of the year as good as for the first five months. Sinking fund operations, it is said, are cutting down bonded indebtedness at the rate of more than \$200,000 annually.

The Heavy Chemical Market

Current Spot Quotations of Heavy Chemicals, page 232

MAKERS REDUCE POTASSIUM BICHROMATE

Competition and Lessened Demand Force Prices Down

—Methyl Acetone Advanced on Scarcity of Supplies

—Calcium Arsenate Not Up to Expected Demand

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced
Methyl Acetone, 15c gal.
Declined
Potassium Bichromate, 1/4c lb.
Sodium Prussiate, 1/4c lb.
Potas. Titanium Oxalate, 3c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetic Acid, Glacial...lb.	\$1.24	\$1.24	\$1.24	\$0.94	\$1.94	\$0.7
Sulfuric Acid, 66 deg. ton	15.00	15.00	15.00	14.00	55.00	20.00
Ammonium Sulfate...100 lbs	3.15	3.15	3.15	2.85	7.50	1.50
Bleaching Powder...100 lbs.	1.75	1.75	1.90	1.60	9.50	1.50
Copper Sulfate...100 lbs.	5.25	5.25	5.50	5.95	20.00	4.50
Potash Caustic...lb.	.07 3/4	.07 3/4	.07 3/4	.05 3/4	.87	.48
Soda Ash, 58 p.c...100 lbs.	2.00	2.00	2.00	2.00	3.50	.60
Caustic Soda, 76 p.c...100 lbs.	3.70	3.70	3.70	3.71	9.50	1.42
Potassium Bichromate...lb.	.10 3/4	.10 3/4	.11 1/4	.10	.65	.06 3/4
Sodium Prussiate...lb.	.13	.14	.16	.21	1.25	.18
Average	3.129	3.130	3.173	3.057	10.79	2.99

Business in industrial chemicals continues quiet with only a small volume of business passing to keep plants operating on a small scale or part time during the summer months. Some factors describe the situation as being fair while others state that business is slow, but that this condition is expected at this time of year. The general trend of prices is still downward, though basic chemicals such as heavy acids and alkalis are being maintained at steady prices. Competition among sellers is very keen for the little business in prospect, and in many instances there is shading of prices in order to get the business. In other instances even attractive prices do not interest the buyer. Most factors, however, look for better business with the passing of the summer months.

The slump in arsenic is the outstanding feature in the market. Early expectations of a large consumption of calcium arsenate have not materialized and large quantities of arsenate on hand apparently will not be used this year. Last fall it appeared that there would be a shortage of arsenate this summer, but the boll weevil has proved a boomerang to the early speculators in arsenate by failing to appear in the quantities expected. White arsenic is dropping in the face of this situation. Copper sulfate buying is at a minimum. Potassium bichromate has been reduced. Methyl acetone is higher. Potassium prussiate is a bit firmer on spot. Bleach is unchanged. Sodas are fairly active with good export demand for caustic soda. Acids are quiet.

Acid, Acetic—Sales have been dropping off gradually and the market has become quiet after recent activity. Prices are maintained by makers at the schedule of \$3.38@\$.63 for 28% according to quantity in barrels; 56%, \$6.75@\$.70; 70%, \$8.38@\$.83; 80%, \$9.58@\$.11.60; Glacial, \$12.78@\$.13.53.

Acid, Formic—Imported is being held at 12c@14c for the 90 per cent while domestic is practically out of the market. Fair demand reported.

Acid, Lactic—The situation is without change with prices holding steady and demand more or less routine. Dark 22% at 4 1/2c@5c; light, 5 1/2c@6c; dark 44%,

9 1/2c@10c; light, 11 1/2c@12c; 66%, 16c; U.S.P., 55c@70c.

Acid, Muriatic—The usual recession in buying is being experienced but prices are quoted at previous levels; 18° in tanks at 90c@\$.1.00 at works and in carboys \$1.00@\$.1.10; 20° acid in tanks \$1.00@\$.1.10; in carboys \$1.25@\$.1.50; 22°, \$1.75@\$.2.00 in carboys.

Acid, Oxalic—Competition is somewhat keen for present business and prices are subject to shading in some quarters. Makers are naming 12 1/4c@12 1/2c. at works while spot is held at 13c. Imported quoted at 12c@12 1/2c.

Acid, Sulfuric—Buying is on a smaller scale though a fair volume is reported for the season of the year. Makers are holding prices steady at \$15.00@\$.16.00 ton in tanks at works for 66° acid; drums, \$1.10@\$.1.25; carboys, \$1.25@\$.1.75; 60° acid in tanks, \$9.00@\$.10.00 ton; drums, 60c@90c. Oleum is still somewhat limited in supply though demand is less than it has been. Makers name \$18.00@\$.19.00 ton in tanks at works.

Acetone—Makers have advanced prices of methyl 15c per gallon to \$1.15@\$.1.20 per gallon. Supplies are very small while demand has been exceptionally good. C.P. in drums is steady at 25c@25 1/2c. at works; resale lots at 30c@32c.

Alums—The market is more or less routine in nature and stocks are quite plentiful. Ammonia lump at \$3.50 @\$.3.60; potash, imported 3c@3 1/4c; chrome 5 1/2c@6c; soda, 3 1/2c@4c.

Arsenic—Supplies have been increasing steadily in the market and in view of the slow consumption of arsenate in the cotton fields in the south prices are in a precarious position. Sales have been heard of at 9 1/2c. on spot while general quotations are around 10c@10 1/4c. No interest is being shown and buying is at a minimum on spot and for future delivery.

Bleaching Powder—With consumers only taking enough for their immediate requirements the volume of business is not of large proportions but satisfactory for the time of the year. Prices are named at \$1.75@\$.1.90 according to makers at works. Spot prices named at \$2.25@\$.2.50 per 100lbs. as to quantity.

Bichromates—Though supplies are not large makers have reduced potassium bichromate to 10 1/4c@10 1/2c. Competition and slow demand are said to be reasons for the decline. Soda bichromate continues steady at 8c@8 1/4c. with fair amount of business passing.

Calcium Arsenate—The boll weevil has not been active in the cotton field this summer and therefore calcium arsenate has not been in demand. Stocks are reported fairly plentiful in the south while in the local markets it is not moving at all. A little arsenate has been used on the cotton army worm in some sections of the south. Spot prices are almost anything a seller can get with 12c@14c. in most cases. The anticipated demand for arsenate has not been realized thus far this year.

Copper Sulfate—Demand from the agricultural sections is confined to small repeat orders but the bulk of the business for the season is over. Domestic makers are quoting \$5.20@\$.5.25 for carlot business and \$5.40 @\$.5.50 for smaller lots. Imported is still around 4 1/2c @5c. depending upon the quantity and seller.

Fertilizers—Contract business in ammonia sulfate is reported good at \$3.10@3.15. Export is fair at \$3.50 @ \$3.60. Sodium nitrate has been quiet with prices holding at \$2.42½@2.45. Fish scrap \$3.75@4.00. Phosphate rock, 68-75%, \$3.25@4.50; very quiet; tank-age fair, \$3.50&10.

Potash Caustic—Prices appear to have hardened at 7¼c@7½c/lb. for imported 88-92%. Demand has been quiet and only routine business is passing. Domestic is held at 9c@10c/lb. at works.

Prussiates—Consuming demand is slow and prices of sodium prussiate are still somewhat easy at 13c/lb. Potassium prussiate is a trifle firmer with not much available on spot though there is no demand. Shipments are quoted at 30c@30½c/lb. while spot is 32c@34c/lb. Red potash at 65c@67c/lb.

Soda Ash—Steady buying features this market with prices stable. Makers are making good deliveries on contract in spite of the general slowness in other chemicals. Contract prices are firm at \$1.45@1.50 for 58% in bags at works. Spot prices for less than carlot business are \$2.00 per 100lbs. in bags and \$2.25 in barrels.

Soda Caustic—Export buying has been fairly active during the past week with prices at a range from \$3.10 @ \$3.25 according to make. Spot business is being done at \$3.40@3.70 depending upon brand. Makers are steady with contracts for 76% in drums at \$3.16½ in carlots at works.

MANY BOLL WEEVIL REMEDIES USELESS

Warnings against proprietary preparations and machines for controlling the boll weevil are being sent out by Department of Agriculture entomologists. The department says: "The State and Federal agencies are anxious to help the farmers by means of any new methods which may be discovered. As promptly as possible careful tests are conducted. The Department strongly recommends that farmers exercise due caution in spending money for new boll weevil remedies. So far, in addition to certain cultural methods, only three methods are under consideration. In areas where the yield of cotton is high enough to warrant the expense the calcium arsenate method is heartily endorsed. In Florida a special method of hand removal and destruction of squares when about two squares per plant are present, followed by dusting to poison the terminal buds, has been worked out, and is applicable in regions of light yields. The molasses-arsenate treatment, which has apparently given results over a wide area, is to be given further official tests.

A firm in Johannesburg, South Africa, desires to export white arsenic and would like to enter contracts for definite periods with American importers. Another firm has informed the trade commissioner that it wishes to communicate with American importers of arsenical pyrites. Further information may be obtained by addressing Chemical Division, Bureau of Foreign and Domestic Commerce, Washington, D. C., referring to file Nos. 10170 and 10171, respectively.

American Cyanamid Co., is planning to rebuild the portion of its phosphoric acid plant at Brewster, Fla., destroyed by fire, June 28, with loss approximating \$400,000, including equipment. The plant is devoted to the production of phosphoric acid from pebble phosphate by an electrical process. Virginia-Carolina Chemical Company, Richmond, Va., is interested in the local works.

Bulletin No. 44 on Fine and Research Chemicals by the National Research Council gives an alphabetical list of chemicals and manufacturers.

ARIZONA LEADS IN COPPER OUTPUT

Final statistics of copper in the United States in 1921 and 1922 in pounds with price in cents a pound as gathered by the U. S. Geological Survey are as follows:

Production of copper:	1922	1921
Smelter output	950,285,947	505,586,098
Mine production	1.....	466,190,853
Refinery production of new copper:		
Electrolytic	766,944,836	506,532,984
Lake	122,545,126	100,918,001
Casting and pig	15,180,723	1,963,271
Total domestic	904,670,685	609,414,256
Total domestic and foreign.....	1,358,669,101	1,020,027,096
Total new and old copper.....	1.....	1,455,000,000
Ore produced:		
Copper ore*	1.....	13,396,382
Average yield of copper.....	1.....	1.70%
Other ore yielding copper*.....	1.....	14,248
Average price per pound.....	13.5	12.9
Imports (unmanufactured)	541,013,220	350,472,611
Exports of metallic copper.....	742,755,957	628,415,714
Withdrawn on domestic account:		
Total new copper	896,633,833	610,988,744
Total new and old copper.....	1.....	1,046,000,000
Stocks of refined copper.....	216,000,000	459,000,000
Stocks of blister and materials in solution†	361,000,000	283,000,000
Value of production in U. S.....	\$128,249,000	\$65,221,000

*Short tons.

†Figures not yet available.

‡Total exports of copper, exclusive of ore, concentrates and composition metal.

\$At the end of the year.

EUROPE RECOVERING, SAYS WISCHHUSEN

J. F. Wischhusen, president Superfos Co., Inc., who returned last week from a two and one-half months trip covering the Scandinavian countries, Germany, Italy, Holland and England, says:

"Conditions in the countries visited are more or less unsatisfactory on account of the uncertainty prevailing everywhere in the economical and political field."

"In the Scandinavian countries" he added, "industries are suffering from the readjustment from a period of inflation and most factories are marking time waiting for things to improve. In Germany, certain industries independent of the Ruhr and enjoying the advantages of having their own raw material for their needs are prosperous. There is very little other real prosperity to be noted in Germany and the outlook is most decidedly gloomy. In Italy, Holland and England, conditions are on the mend and there is not the uncertainty in the outlook as there is in central Europe.

"The agencies of Superfos Co. in Scandinavia, Germany, Holland, Italy and England are increasing their business with us, and several other very important connections have been arranged."

HEAVY CHEMICALS ACTIVE IN FRANCE

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 25.—Heavy chemicals are selling well in France, but secondary industries are restricting orders, according to Commercial Attache Jones, at Paris. Purchases for glassmaking, dyestuffs, paints, tanneries, bleaching, and glue, are declining. Nitrate sales are calm, due to bad weather. Dunkirk stocks are estimated at 12,000 tons. The spot price is 93 francs per 100 kilos. Forward sales for France are estimated at 130,000 tons.

The sulfate of ammonia market is active. The manufacturers fixed price at the factory is 85 francs. The distribution of seizures made in the occupied territory has been expedited, but the amounts have not been announced. Cyanamid is slack, due to low prices for sulfate ammonia. Turpentine stocks are very low, but buyers are covered well ahead. The third crop yield was small and prices have risen to an average of 570 francs per 340 liters for the raw material. The price of turpentine is 525 francs, pitch 80 to 90, and colophanes 100.

Para-toluidine—Little activity and quoted at 80c@ 90clb. as to seller.

Phthalic Anhydride—Steady at 30c@35clb. on fair demand.

Tolidine—named at 95@\$.00lb. as to quality. Routine demand.

Xylidine—Firm at 50clb. on limited supplies though demand is reported quiet.

BREITHUTH CABLES GERMAN DYE OUTPUT

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 25—Trade Commissioner Breithuth, Paris, cables that German dye production in May was 7,454,092 pounds. Details are as follows: Alizarin red, 253,264 pounds; indigo paste, 47,740 pounds; vat colors (except indanthrene blue, G. C. D.) 269,526 pounds; indanthrene blue G. C. D., 1,434 pounds; alizarin colors other than red, 172,753 pounds; direct colors for cotton, 2,420,202 pounds; direct colors for diazotization, 158,418 pounds; acid colors for wool, 1,405,122 pounds; chrome colors for wool, 712,158 pounds; basic colors, 300,916 pounds; sulfur colors, 1,567,896 pounds; and lake colors, 144,663 pounds.

WILL STUDY CHEMICAL WARFARE

J. Enrique Zanetti, assistant professor of chemistry of Columbia University, has been appointed a member of a committee of the League of Nations, which will investigate thoroughly the question of chemical warfare. Associated with Prof. Zanetti, who is at present in England, will be a number of eminent chemists representing other countries, including Prof. Charles Moureu of the University of Paris and Sir William Jackson Pope of Cambridge. Col. Raymond F. Bacon, chief of the technical division of the Chemical Warfare Service, A.E.F., said that the League was to make a thorough investigation and make recommendations as to the types of chemical warfare which civilized countries should discard or sanction.

Profits of British Dyestuffs Corp., Ltd., for the year ending Oct. 31, 1922, were £102,657. The loss carried from previous period amounted to £803,355 leaving a deficit of £700,698. Negotiations for return of excess profits duty delayed completion of accounts. This duty has now been terminated. It is proposed to liquidate Huddersfield, Blackley Co. and Claus & Co., Ltd., and transfer their undertakings to British Dyestuffs Corporation, Ltd., which will then become the sole operating company.

Imports of alizarin and alizarin dyes during April were 9,618 pounds, valued at \$19,217; anthracene, 2,274 pounds, valued at \$2,445; all other dyes or stains, 289,495 pounds, valued at \$415,519; and extracts and decoctions, 232,154 pounds, valued at \$23,067.

American consumers are placing orders in France for 500,000 pounds of seized German dyestuffs, according to a cable to the Commerce Department from Commercial Attache Jones, Paris. The seized dyestuffs to date aggregate 6,500 tons.

Exports of logwood extract during May amounted to 114,429 pounds, valued at \$15,967; other dye extracts 177,918 pounds valued at \$22,324; coal-tar dyes and stains 1,830,068 pounds, valued at \$539,358.

Imports of biological stains and color lakes will be published every three months beginning May, June and July by the chemical division, Department of Commerce, and the Tariff Commission.

GERMANS MAKE DYES OUTSIDE THE RUHR

(Special to DRUG & CHEMICAL MARKETS)

Washington, D. C., July 25.—The German chemical industry is active, the demand is brisk and the difficulty previously experienced in obtaining raw materials has passed, according to a cablegram from Commercial Attache Herring, at Berlin. Large imports of coal-tar crudes from Polish Upper Silesia, Czechoslovakia and Holland are taking place as a result of the suspension of production in the area occupied by the French. Resumption in the near future of production of crudes in the Rhineland is improbable as many by-product ovens have been extinguished.

Dye production in the unoccupied territory now is considerable, as orders have been transferred to branch plants which are working at full capacity. The transfer of dyes in large quantities from the occupied territory before and immediately after occupation is reported to have taken place, so that supplies in unoccupied Germany now are large. German coal-tar products still are active in world markets, Mr. Herring's report concluded.

Unofficial prices at Hamburg on July 2 of salicylic acid were 132,000 marks per kilogram; caustic potash, 12,500, and ammonium chloride crystal, 12,000 marks.

CANADA'S APRIL DYE IMPORTS DECREASE

(Special to DRUG & CHEMICAL MARKETS)

Toronto, Canada, July 25—The value of Canadian imports of dyeing and tanning materials during April was as follows: From Britain \$6,908; United States \$220,725; other countries \$134,187; total \$361,820; compared with imports in April, 1922: Britain \$10,206; United States \$212,674; other countries \$158,952; total \$387,832.

Imports of aniline and coal-tar dyes included in the above were as follows: From Britain 12,566lbs. value \$5,386; United States 197,993lbs. value \$90,234; Germany 59,363lbs. value \$46,628; Netherlands 28,025lbs. value \$25,735; Sweden 30,574lbs. value \$17,050; Switzerland 24,416lbs. value \$26,556; total 352,937lbs. value \$211,589; compared with imports in April 1922: From Britain 21,074lbs. value \$15,749; United States 147,091lbs. value \$91,954; Germany 13,130lbs. value \$71,019; Netherlands 20,960lbs. value \$15,610; Sweden 1,300lbs. value \$1,551; Switzerland 21,068lbs. value \$19,259; other countries 1000lbs value \$2,340; total 225,623lbs, value \$217,482.

MOSS GIVES NEW DYE IMPORT RULING

Coal-tar dyes and similar products imported under bond when the Tariff Act of 1913 was in effect but not withdrawn from bond until after the Tariff Act of 1922 became effective must be appraised and duties be assessed under the present law, Assistant Secretary of the Treasury Moss says.

"I am of the opinion," Mr. Moss said, "that articles specified in Paragraphs 27 and 28, which were entered for warehouse and appraised prior to the taking effect of the Tariff Act of 1922, and which are withdrawn from warehouse for consumption subsequent to the taking effect of the act, should be appraised and duties assessed under those paragraphs as if the articles had been originally imported under the provisions of the Tariff Act of 1922."

This interpretation of the law, it was said at the Treasury, was possible only under Paragraphs 27 and 28, since only in those provisions of the new Tariff Act was the principle of American valuation incorporated in the law.

The Oil Market

Current Spot Quotations of Oils, Tallow, Greases, page 247

LINSEED OIL LOWER AND UNSETTLED

Spot Business Quiet and no Business in Futures—Leading Crusher Reduces Castor Oil—Wood Oil Fairly Firm—Menhaden Easier—Cod Oil Lower

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Stearine, oleo, 1c lb.	
Tallow, edible, 3/4c lb.	
Turpentine Spirits, 2c gal.	
Declined	
Castor Oil, 3/4c lb.	Cod Oil, 3c gal.
Chinawood Oil, spot, 3/4c lb.	Linseed Oil, 5c gal.
	Imp., 1c gal.
Coconut, Manila, 3/4c lb.	Tallow Oil, 3/4c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Cod Oil, N. F.....gal.	\$.65	\$.68	\$.70	\$.56	\$ 1.26	\$.36 1/2
Degras, American, bbl..lb.	.083 1/4	.04	.04 1/2	.04	.25	.08 1/2
Lard, No. 1.....gal.	.79	.79	.79	.73	2.90	.92
Menhaden, crd., bbls.gal.	.48	.48	.50	.45	1.20	.33
Neatsfoot, 20 deg. c.t.gal.	1.25	1.25	1.25	1.50	3.45	.95
Red Oil, distilled.....lb.	.099 1/2	.099 1/2	.099 1/2	.08 1/2	.17	.07
Stearic Acid, T.P.....lb.	1.44 1/4	1.45 1/2	1.45 1/2	1.05 1/2	.33	.12
Coconut, Ceylon, bbls..lb.	.09 1/2	.09 1/2	.09 1/2	.08 1/4	.90	.14
Cottonseed, crude, tks..lb.	.10	.10	.10	.07	.25	.08
Linseed, carlots.....gal.	1.00	1.05	1.12	.88	1.88	.57
Olive, denatured.....gal.	1.10	1.19	1.15	1.12	4.50	1.05
Peanut, refined.....lb.	.16	.16	.16 1/2	.13 1/4	.30	.08
Soya Bean, bbls.....lb.	.12	.12	.13 1/4	.12 1/2	.19 1/2	.07
Average	0.464	0.468	0.478	0.479	1.30	0.362

Quiet conditions still prevail in the market for fixed oils, fats and greases. The general trend of prices continues downward with weakness in linseed oil and cottonseed oil leading in the downward movement. Consumers are maintaining their policy of buying only for immediate requirements and as a result business continues to drag. Some factors believe the bottom has been reached in price reductions, but buyers of linseed oil are holding off for lower prices. Crushers are busy on contract deliveries but admit that new business is not coming in. Further reductions took place during the week to a basis of \$1.00 for linseed oil in carlots. Reports of large crops of flaxseed and cotton have had bearish effects upon the market. Chinawood oil is a trifle easier on spot, but is holding well owing to limited offerings from the Orient. Other vegetable oils are quiet with an easy tone though stocks are not abundant. Inquiry for animal oils and tallow have been more numerous and this market is slightly firmer. Edible tallow and oleo stearine are higher. Tallow is unchanged, but tallow oil is lower. Stearic acid and red oil are steady at recent reductions. Menhaden oil is showing signs of weakness. Operators are beginning to recede from their prices slowly as buyers show no disposition to purchase. Cod oil has declined on slow demand. Turpentine and rosin are higher.

Vegetable Oils

Castor Oil—A leading crusher has announced a reduction of 3/4c lb. and is now quoting at 14c lb. in barrels and 13 1/2c lb. for No. 3.

Chinawood Oil—Position is fairly firm owing to lack of offerings from the Orient though very little business is passing at present. Spot stocks are not large. Spot prices are a trifle easier than last week at 23 1/2c lb., barrels; tanks 23c lb. Aug.-Sept. forward from China, 23 1/2c@24c lb. Coast, Aug. forward, 22 1/2c@23c lb.

Coconut Oil—Little buying is taking place though

inquiries have been fairly good. Actual business has been quiet, however, and sellers are marking time waiting for a buying movement. Manila is lower at 7 3/4c@8c lb. in tanks at the Coast; Ceylon on spot in barrels at 9 1/4c@9 1/2c lb.; tanks, 8 1/2c lb.; Cochin, bbls., spot, 10 1/2c@11c lb.; tanks, 9 1/4c@9 1/2c lb.

Corn Oil—The market is steady with little activity in buying. Crude in tanks at mills named at 7 3/4c@8c lb. but slightly lower figures have been reported.

Cottonseed Oil—Trading is quiet owing to recent bearish reports on crop estimates and general dull business. Most interest is in Sept.-Oct. positions. Prices are generally lower. At opening of the week, P.S.Y. July, 9.90@10.40; Aug., 10.20@10.24; Sept., 9.76@9.77; Oct., 8.82@8.84; Nov., 8.30@8.33; Dec., 8.26@8.28; Jan., 8.27@8.29; Feb., 8.30@8.36. Spot, 10c@10 1/2c lb. Crude oil is nominal.

Linseed Oil—Lack of buying interest and bearish reports of flaxseed crops have weakened the market and crushers have reduced prices to \$1.00 in carlots, cooperage basis. New business has been lacking in both prompt and future positions and prices are unsettled. Imported oil is also lower at 99c@\$1.03 per gallon on spot. London linseed oil firmer at 44s; Antwerp, 390f per 100 kilos. Ideal weather conditions in the northwest seem to assure the Government estimate of 18,000,000 bushel flaxseed crop. Present stocks of seed in the northwest are small and prices are firmer. Winnipeg July, \$2.25; Oct., \$1.95. Duluth, July, \$2.68 1/2; Sept., \$2.32; Oct., \$2.26 at opening of the week. Buenos Aires, easy, \$1.85 1/2.

Olive Oil—Only routine business has been taking place with denatured at \$1.10@\$1.15; edible, \$1.70@\$2.00; foots remain steady at 8 3/4c@8 1/2c lb. on spot and 8 1/2c@8 3/4c lb. for shipment.

Palm Oil—Prices remained steady though demand has been quiet. Stocks are reported small. Lagos 7c@7 1/4c lb.; Niger, 6 3/4c@7c lb.

Soya Bean Oil—Buying is slow and what little business is passing is held at 9c lb. in tanks on spot and 11 1/2c@12c lb. in bbls.; crude in tanks at coast, 9 1/4c@9 1/2c lb.

Animal Oils

Greases—Unchanged in price with buying quiet; white, 8 1/2c lb.; yellow, 5 3/4c lb.; brown, 5 1/2c lb.; house, 6c lb.

Lard Oil—Continues steady in price but business is more or less routine; edible firm at 14 1/2c lb.; prime, 12c lb.; extra, 11 1/2c lb.; No. 1, 10 1/2c lb.

Neatsfoot Oil—Buying confined to immediate requirements at unchanged prices 20° cold test, 16 1/2c lb.; 30°, 15 1/4c@15 1/2c lb.; prime, 14 1/4c lb.

Oleo Oil—Routine buying at steady prices. No. 1, 11 3/4c lb.; No. 2, 10 1/2c lb.

Red Oil—Steady at recent reduction to 9 1/2c lb. in carlots at works; tanks at 8 3/4c lb.

Stearic Acid—Producers holding at recent decline with business along steady lines. Triple pressed, 14 1/4c@14 3/4c lb.; double pressed, 13c@13 1/2c lb.; single, 12 1/2c lb.

Tallow—Inquiry is reported better and increased buying is looked for. Producers are naming 6 3/4c lb.

Tallow Oil—Slow demand and prices down to 8 1/4c lb.

Fish Oils

Cod Oil—Buying has been inactive and sellers are

quoting lower prices. One sale reported at 58c per gallon. Generally quoted at 63c@65c gallon.

Menhaden Oil—Operators are still holding at 48c@50c per gallon but buyers are holding off. One offer was reported at 40c with no takers. Buyers maintain prices are too high and little business is expected until sellers lower their present prices. Refined oils range from 72c@76c per gallon. Fishing operations reported satisfactory.

Sperm Oil—A moderate business is passing at recent prevailing prices; 38° held at 99c per gallon, spot, and 45° at 94c per gallon.

Naval Stores

Turpentine—Improved buying has been noted while offerings are not too abundant. Prices have advanced to 95c on spot while Savannah is steady at 88c for spirits. Steam distilled, 85c per gallon.

Rosin—Large consumers are showing more interest and the market has assumed a stronger tone. Dealers have advanced prices of the better grades, while lower and medium grades are unchanged. B, \$5.90; D to K, \$6.00; M, \$6.05; N, \$6.75; WG, \$7.00; WW, \$7.25.

The results of the menhaden fishing in Chesapeake Bay and outside the capes have been disappointing so far. It is estimated that the catch is about 6,000,000 fish up to this time, against not less than 60,000,000 last season. Why the yield is so poor no one seems able to explain. According to reports from various points the fish are plentiful enough, but a tendency to scatter makes operations difficult. The fish are moving South. A considerable number of sales of fish scrap have been made on the basis of \$3.75 and 10¢ at factory, with some of the companies holding out for \$4 and 10¢, down the bay. The attitude of the menhaden fishing companies in holding out for 50 cents per gallon for oil in buyers tank cars, Baltimore, has prevented any sales whatever.

United States exports of pigments, paints, and varnishes during 1922 were 32,960,000 pounds, valued at \$11,478,000, compared with 20,626,000 pounds in 1921, a decrease in value of 5 per cent; turpentine spirits, 67,400,000 pounds, valued at \$10,153,000, compared with 66,729,000 pounds in 1921, an increase in value of 68 per cent; paraffin wax, 284,501,000 pounds, valued at \$9,396,000, compared with 232,324,000 pounds in 1921; starch, 363,172,000 pounds, valued at \$8,330,000, compared with 257,795,000 pounds in 1921, an increase in value of 39 per cent; resin, 399,587,000 pounds, valued at \$7,488,000, compared with 280,432,000 pounds in 1921, an increase in value of 44 per cent.

Imports of dead oil by United States during 1922 were 370,782,000 pounds, compared with 296,459,000 pounds in 1921; coconut oil, 221,164,000 pounds, compared with 189,717,000 pounds in 1921; linseed oil, 144,137,000 pounds, compared with 60,091 pounds in 1921, an increase in value of 172 per cent; oil cake and meal, 108,712,000 pounds, valued at \$2,702,000, compared with 88,406,000 pounds in 1921; edible olive oil, 61,187,000 pounds, compared with 50,440,000 pounds in 1921; palm oil, 57,516,000 pounds, valued at \$3,772,000, compared with 23,155,000 pounds in 1921; and cod and other oils, \$3,617,000.

Dixie Cotton Oil Co., Little Rock, Ark., was recently incorporated for \$1,600,000 by W. F. Bridewell, W. O. Scroggins, and D. D. Adams. The new company will absorb Morrillton Cotton Oil Co., Morrillton and Searcy, and a mill located at England, Ark., formerly operated by American Cotton Oil Co.

FORECASTS HIGH YIELD IN FLAXSEED

Crop of 18,000,000 Bushels Expected—High Prices Bring Increased Acreage—World Shortage Probable.

Government estimates and forecasts in the report of the Department of Agriculture for 1923 show increased acreage and a high yield of flaxseed. The area for this season is estimated at 2,285,000 acres, against 1,341,000 acres in the July report last year, and 1,308,000 acres in the final report of last year. Total production is estimated at 18,000,000 bushels against the final figures of 12,238,000 bushels in 1922 and a July 1922 estimate of 10,700,000 bu. The condition of the crop is placed at 85 per cent of normal, which compares with 87.6 last year and a ten-year average of 84.8 per cent. Government statistics for ten years follow:

	July 1, Bu.	Final Bu.
1914.....	17,665,000	13,749,000
1915.....	16,399,000	14,030,000
1916.....	14,467,000	14,296,000
1917.....	16,964,000	9,164,000
1918.....	15,792,000	13,369,000
1919.....	13,232,000	7,256,000
1920.....	14,398,000	10,774,000
1921.....	9,671,000	8,112,000
1922.....	10,700,000	12,238,000
1923.....	18,000,000	.....

Trade authorities think the government estimate should be fulfilled unless serious damage results from heat later in the season. The increased acreage is due to the high prices which have prevailed for flaxseed over the 1922-23 season. Increased demand for oil, the tariff, and an estimated world shortage of 10,000,000 bushels are reasons for recent high prices.

The combined Antarctic whale catch for the season just closed was fully up to the best year so far recorded, according to Department of Commerce figures from the "Norwegian Whaling Times" which puts the catch at 618,000 barrels valued at \$17,000,000, distributed as follows: Norwegian fleet, 344,000 barrels, \$9,200,000; British, 214,000 barrels, \$6,200,000; Argentine, 60,000 barrels, \$1,600,000. The season covered about 150 days instead of the usual 120 to 130 days, the catch improving toward the end of the season.

Herman D. Ruhm, president, Paint, Oil and Varnish Club, New York, has appointed a committee to consider the movement regarding uniform practice covering purchase and sale of chemicals. The Committee was instructed to report back to the Executive Committee of the club before the September meeting. The Committee includes: D. H. Litter, chairman; C. H. Black, Alex. Joseph, A. G. Fairweather, Alfred W. Dodd, C. F. Guignon, V. H. Hunter, R. W. Murray, A. S. Somers.

Total cod liver oil catch up to June 9 was 48,200,000 cod, 81,023 hl. steam oil, and 16,847 hl. livers, against 47,400,000 cod, 78,259 hl. steam oil, and 14,827 hl. livers in 1922, according to Aarsaether Brothers, Aalesund, Norway, who are represented in this country by P. R. Dreyer, New York.

Caddo-DeSoto Cotton Oil Co., Shreveport, La., capitalized at \$400,000, was recently formed by merger of Henderson Cotton Oil Co., Caddo Cotton Oil Co., DeSoto Cotton Oil Co., and Homer Cotton Oil Co. J. R. Brown is president and J. W. McClendon of Waco, Texas, is secretary.

R. H. Dufault was recently appointed district sales manager of the lithopone, pigments and heavy chemicals division of the paint department of E. I. du Pont de Nemours & Co., Philadelphia.

The Fine Chemical Market

Current Spot Quotations of Fine Chemicals, page 232

AMIDOPYRINE AND ANTIPYRINE DECLINE

Owing to Accumulated Stocks on Spot—Resale Salicylic Acid Inside at 40clb.—Camphor Easier—Menthol Inactive—Podophyllin Firmer—German House Rumored Sales Agents for Santonin

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Acid, Salicylic, Resale, 2c lb.	Bismuth Nitrate, 15c lb.
Cream Tartar, Imp., ¼c lb.	Salicylate, 3c lb.
Declined	
Acid, Citric, Imp., ½c lb.	Amidopyrine, 25c lb.
Acid, Tartaric, Imp., ¼c lb.	Antipyrine, 10c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Acetanilid	\$32	\$32	\$32	\$30	\$2.00	\$2
Acid Citric, Import	50½	51	52	44½	1.25	.45
Caffeine Alkaloid	3.65	3.65	3.75	3.75	18.00	3.65
Calomel, American	1.25	1.25	1.25	.94	3.43	.90
Camphor, Jap., ref. ....	.87	.87	.88	.80	3.55	.41
Iodine, Resublimed	4.55	4.55	4.55	4.20	5.00	3.75
Menthol	9.75	9.75	10.00	6.25	13.50	3.00
Potassium Bromide, Cryst. ....	.26	.26	.26	.23	4.30	.80
Quinine Sulfate, Imp. ....	.49	.49	.50	.50	.90	.25
Sodium Salicylate .....	.47	.47	.47	.32	4.25	.27
Strychnine Sulfate .....	.84	.84	.84	.76	2.05	.50
Average	2.36	2.36	2.39	1.68	5.92	1.56

While total volume of actual sales has been somewhat limited, the number of inquiries has increased considerably during the past week. This condition would indicate that buying is about to be resumed on a broader scale than has taken place during the past fifteen weeks. The hand-to-mouth variety appears to have run its course, and in its place, round lot buying is looked for in the near future. Just how far off this improvement is, is a matter of speculation. Numerous items are selling too close to cost, which shows an artificial situation that can be adjusted in only one way—curtailed production. With few exceptions, the medicinal chemical group prices are at levels where production costs warrant no further reductions, and future movements are more apt to be up than down.

Acetanilid—Unchanged at 32c@33clb. spot as quoted by makers and 31clb. spot for resale lots.

Acid, Acetylsalicylic—Quoted at 85c@90clb. spot as to maker. Resale lots available at 82c@83clb. spot. Manufacturers are reported to be preparing for a good season in this item.

Acid, Carbolic—U.S.P. crystals have declined owing to easier position of phenol and now quoted as follows as to seller: 110lb. tins, 42c@47clb.; 25lb., 44c@49clb.; 5lb. tins or bottles, 46c@52clb.; 1lb. bottle, 51c@56clb.; and 1lb. bottle, liquid, 50c@55clb. spot.

Acid, Citric—Imported has declined and now quoted at 50½c@51½clb. spot for crystals owing to easing off of demand and further accumulation of stocks. Business is reported slow in London. During past week 100 casks were imported at New York. Makers are firm at 49clb. spot with deliveries being restricted to regular customers. During past week 210 cases of citrate of magnesia were entered at New York.

Acid, Salicylic—Quoted by makers at 40c@45clb. spot with demand limited in view of the unsettled condition of the phenol market. The trade seems to think that there is no bottom to this market, when phenol can be bought for 35c to-day and to-morrow at 34clb. and

so on. Resales have moved up and best price is now 40clb. spot. Possibilities exist for the foreign inquiry to be filled at the maximum figure, which is reported to be 37clb. London is quoting an easy market at 2s 1d per pound.

Acid Tartaric—Has eased off and now quoted at 34½c @35clb. spot with some directions asking as high as 36½clb. Tendency has been to easier market due to limited demand and slight accumulation of stocks recently imported. In all probability part of the current week's importation at New York of 866 cases and 50 kegs is "sold to arrive," but the balance will probably have some effect on the spot market.

Alcohol—No. 1 specially denatured at 38c@40c gal. in drums, No. 5 completely denatured at 37c@39c gal. in drums, and No. 6 completely denatured at 36c@38c gal. are in active demand with possibility of firmer prices in near future. Makers report that sales in this item are compensating the slackness in formaldehyde.

Amidopyrine—Has declined and now quoted at \$4.75 @\$.50lb. spot as to seller owing to heavy supplies carried on spot and also to desire of holders wishing to turn over investment.

Antipyrine—Has declined again and now quoted at \$2.70@\$.3.25lb. spot as to holder with replacements named higher.

Atropine Sulfate—Generally quoted at \$4.00 oz. spot with a limited quantity available at \$3.65 oz.

Caffeine Alkaloid—Second hand material obtainable at \$3.65lb. spot.

Camphor—While 87c@89clb. for 2½lb. Japanese slabs is generally quoted, it is thought in the trade that these figures could be shaded slightly. Cables from London report easier market. During past week 100 cases were entered at New York from Hamburg.

Codliver Oil—Spot held firm at \$25.00@25.50 bbl. with shipment named at \$23.50 c.i.f. New York. Fishing in Norway is reported officially closed under date of June 27, and the results thereof are as follows: 51,600,000 cod, 85,073 hl. steam oil, and 17,098 hl. livers for 1923; 47,900,000 cod, 79,313 hl. steam oil, and 15,252 hl. livers for 1922; and 39,000,000 cod, 57,388 hl. steam oil, and 13,367 hl. livers for 1921. Unfiltered oil is still being sold in large quantities to Germany for industrial purposes.

Cream Tartar—Cheap lots appear to have been taken off market and best inside price is now 25¼clb. spot for imported and 26½clb. for domestic make. Last week saw 100 cases and 50 packages entered at New York.

Glycerin—C.P. quoted easy at 16c@16½clb. spot for drums. While a number of contracts are reported to be made for the next four months, there is still enough material to make the "rounds." Dynamite is being held at 15c@15½clb. owing to an increased number of inquiries being received on spot.

Menthol—Quoted firm at \$9.75@10.00lb. spot for cases as to holder. Rumors are again coming out of Japan to the effect that the first cutting of this year's crop will be about 50 per cent of the estimates. An important factor states that Japanese holders are now quoting \$8.75lb. c.i.f. for 50 case lots, where formerly

they would only quote on 10-15 case lots at \$9.30lb. c.i.f. New York. Inquiries are being received on spot in larger numbers. During past week 30 cases were imported at New York.

Mercury—Quoted easy at \$66.00@\$66.50 flask with possibility of shading this figure on firm business. London is quoting £10 10s flask spot. A shipment 600 flasks was entered at New York.

Podophyllin—Firm at \$5.25@\$5.50lb. spot owing to limited offerings of raw material from primary market.

Potassium Permanganate—Quoted easy at 16½¢@18½¢lb. spot as to seller with possibility of doing 16¢lb. on a large quantity. Last week saw 100 casks entered at New York.

Santonin—Quoted nominally at \$173.00@\$175.00lb. as stocks in this country have been returned in view of the expected lower prices. Rumors are heard that a small London company will be the sole selling agent for the Soviet Government. An order for 200 pounds was recently refused for fear the customer would be the loser to the extent of about \$35 per pound.

Sulfonethylmethane—Makers have reduced price and now quote "without engagement" at \$4.00lb. spot owing to cheaper raw materials.

Sulfonmethane—Has declined and now quoted at \$3.00lb. spot for 25lb. lots.

United States exports of lubricating oil during 1922 were 2,462,002,000 pounds, valued at \$76,642,000, compared with 2,149,622,000 pounds in 1921, a decrease in value of 17 per cent; oil cake and meal, 926,301,000 pounds, valued at \$19,898,000, compared with 1,206,484,000 pounds in 1921, a decrease in value of 19 per cent; and cottonseed oil, 75,303,000 pounds, valued at \$7,287,000, compared with 252,549,000 pounds in 1921, a decrease in value of 70 per cent.

Hoshi Pharmaceutical Co., Ltd., Tokyo, Japan, has purchased Kyoto Pharmaceutical Co., and increased its capital from \$10,000,000 to \$25,000,000 to develop its output of quines, salts and alkaloids. Vietor & Hosken, 160 Pearl st., are distributors for the Hoshi Pharmaceutical Co. in this country. Mr. Vietor returned from a trip to Japan a few days ago.

Exports of crude tartars and argols during 1922 from Algeria, according to American Consul Edward A. Dow, were 1,259 metric tons, valued at \$218,901; against 1,059 tons, valued at \$158,544 in 1921; wine-lees, 3,688 metric tons, valued at \$107,280 in 1922, against 2,620 tons, valued at \$69,840 in 1921.

Ernest G. Swift, secretary and comptroller of Parke, Davis & Co., Detroit, has retired from active business after more than forty years of service with his company in various capacities.

National Ultramarine Co., Huntington, W. Va., recently organized to manufacture dyes, will break ground soon for its new plant at Cincinnati. U. S. C. Anderson heads the company.

Sidney Cohen, Pacific Chemical Co., New York, cancelled his sailing of July 18 on the Paris and indefinitely postponed his European trip owing to serious illness in his family.

Stocks of Ajax Chemical & Surgical Commodities Co., New York, were partly destroyed by fire on July 4. Loss was covered by insurance.

HONGKONG CAMPHOR TRADE DECLINING

Revolutions in China Seriously Interfere With Shipments From South and Central Sections—U. S. Took 7,000 Piculs in 1920 and Less Than 600 Piculs in 1922

Exports of camphor from Hongkong are declining rapidly, as shown in the following table;

Countries of destination	1920		1922	
	Quantity Piculs ¹	Value	Quantity Piculs ¹	Value
United Kingdom	2,299	£139,325	220	£23,692
Australia	86	3,128	4	79
India	1,242	43,836	824	15,393
Straits Settlements and Federated Malay States	189	5,983	54	953
North China	26	1,351	5	71
Japan, Chosen, and Formosa	71	1,686	5	496
Netherlands East Indies	36	1,890	1	5
French Indo-China	85	2,529	59	807
Siam	71	1,949	142	2,329
United States	7,007	339,262	399	10,086
France	2,344	107,048	20	388
Middle China	5	171	14	72
Other countries	99	6,238	59	1,271
Total	13,560	£624,380	1,976	£35,632

11 picul=133½ pounds.

Supplies come from the provinces of Kwangsi, Fukien, and Kiangsi, while a small quantity also comes from the Kwangtung Province. That of Kwangtung and Kwangsi is inferior in quality to the camphor of Fukien and Kiangsi. The island of Formosa, where the Japanese Government holds a monopoly, supplies the largest portion of the world's camphor, says "Commerce Reports." South and Central China are important producers, but the revolutions have seriously interfered with the trade.

Crude gum camphor is the principal kind exported from Hongkong, both the crude Fukien and Kwangsi varieties being shipped in large quantities. Refined camphor is only sold in insignificant quantities, as the native methods of refining are both primitive and expensive. Camphor oil is also only exported in small quantities, mostly to Calcutta. Figures for exports of camphor oil are not available since in the statistics this commodity is included with other essential oils, such as sandalwood, ginger, and peppermint.

Sellers guarantee the merchandise to analyze 90 per cent camphor and the oil to be of a guaranteed specific gravity upon arrival. If the analytical test shows a lower percentage, it is customary for the sellers to allow the buyers a rebate on the price of the camphor. The usual rebate is three-eighths of 1 cent, United States currency, per pound for each unit under 90 per cent.

Contracts of sale to the United States are ordinarily governed by the clause "landed net weights," that is, the sellers undertake to indemnify the buyers for any difference between the invoice weight and the weight as ascertained upon arrival. It is also the custom for the purchasers to provide the exporters with a confirmed letter of credit at 90 days for the full invoice value.

The price of Fukien and Kiangsi camphor, which is considered of the best quality, at the present time is about 160 Hongkong dollars (1 Hongkong dollar=\$0.4777 at normal and \$0.5221 at current rate of exchange) per picul, while the inferior grades from Kwangtung and Kwangsi are sold at about 155 dollars per picul. The better grade of camphor oil is being sold at present for approximately \$26 per picul, and the inferior about \$18.

Aluminum chloride, which is of great value in the petroleum oil refining industry, is too expensive for practical purposes. The cost would have to be not over 10¢lb at the most, according to studies made by the Department of the Interior. It is estimated that 250,000 to 1,000,000 tons could be used annually in the oil industry.

The Crude Drug Market

Current Spot Quotations of Crude Drugs, page 249

AGAR AGAR UP ON REDUCED STOCKS

Shipment Named at \$1.35lb. c.i.f. New York—Spanish
Anise Off Market—Oregon Fir Balsam Easier—Bu-
chu Leaves Holding Firm—Cascara Sagrada Demand
Active—Competition in Japan Wax

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced
Agar Agar, No. 1, 15c lb.
Dandelion Root, 4c lb.
Sarsaparilla, Mex., 2c lb.

Declined
Arabic Gum, Amber Sorts, 1/2c lb. Cinchona Bark, Broken, 2c lb.
Balsam, Oregon Fir, 25c lb. Nux Vomica, Powd., 1c lb.

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Aconite Root, U.S.P.	\$.38	\$.38	\$.38	\$.21	\$.90	\$.12
Buchu Leaves, Short. ....	.90	.90	.95	1.05	4.00	.85
Cantharides, Russian	1.75	1.75	1.75	4.00	9.00	2.10
Cocculus Indicus ....	.03 1/2	.03 1/2	.03 1/2	.04	.85	.03
Ergot, Spanish ....	.51	.51	.52	1.05	4.50	.54
Insect Powder, pure ....	.57	.60	.65	.52	1.00	.28
Ipecac, Cartagena, powd. .	1.90	1.90	1.90	1.80	4.50	1.35
Nux Vomica ....	.06 1/2	.06 1/2	.06 1/2	.06	1.45	.07
Opium, gum	8.00	8.00	8.00	6.00	30.00	5.00
Rhubarb Root, H. D. ....	.43	.43	.43	.55	1.75	.15
Tragacanth, No. 1, ribbon. .	1.80	1.50	1.52	1.75	6.00	1.80
Wild Cherry Bk., thin nat. .	.10	.10	.10 1/2	.09	.21	.07
Average	1.35	1.35	1.36	1.43	5.28	1.00

Although rumors are afloat about this time of the year to the effect that American botanicals will be collected in smaller quantities than during normal times, information has been obtained from reliable sources that unless collections speed up to twice the present rate, there will be an actual shortage in a number of items. During the current week several sales of round lots were reported, but these were more an exception than the general rule. If manufacturers could foresee their needs for the Fall trade, now would be the opportune time to buy in a large way, as nearly all foreign crude drugs are being quoted well above spot market. If these goods are carried for few weeks longer, when demand is hoped to spread over a broad area, the importers will probably feel inclined to hold on to them as no doubt they will be able to get better prices. Under the present conditions a number of houses feel that current quotations are about as low as they can possibly go, and the tendency is to "stand pat" as quoted. The upward movement at the moment is caused primarily by scarcities on spot.

Aconite Root—Quoted firm at 40clb. spot with tendency to hold at this figure.

Agar Agar—Has advanced and now quoted at \$1.60 @ \$1.70. spot for No. 1 and \$1.45 @ \$1.55lb. for No. 3 as to seller owing to higher quotations for shipment and also to light supplies on spot. Japan is quoting \$1.35 c.i.f. which is about equal to spot. One factor searched the spot market for goods with the result that if there were any stocks here they were being held for higher prices. Reports from London state that stocks are greatly reduced both there and in the East.

Aloes—Cape quoted easy at 9c @ 10clb. spot. Curaçao has advanced and now quoted at 8 1/4c @ 8 1/2clb. spot with one direction asking 9clb. inside.

Althea Root—Quoted firm at 28c @ 40clb. spot as to seller and quality.

Anise Seed—Spanish is practically off the market. Quoted nominally at 28c @ 28 1/2clb. spot. England is said to have some stocks, but it is not possible to use them in this market due to lower specifications for the British trade. Star in good supply at 12 1/2c @ 13clb. spot.

Arabic Gum—Amber sorts lower at 14c @ 14 1/2clb. spot with possibility of shading this figure.

Balsams—Oregon Fir has declined and now quoted at \$3.00 @ \$3.25 gal. spot owing to a new lot coming on market at a cheaper figure. Holder stated that he liked to give consumer advantage of cheaper goods. Tolu firm and tending to higher prices than \$1.35 @ \$1.50lb. spot as to seller and quantity.

Buchu Leaves—While spot goods may be obtained at 90c @ 95clb., it is generally quoted at 92clb. Reports were heard of a few round lot sales being made last week. Stocks are becoming less and if demand comes forward to any extent, higher prices can be expected.

Cardamom Seed—All grades quoted firm at \$1.20 @ \$1.70lb. for bleached and \$1.05 @ \$1.15lb. spot for decorticated with some factors holding inside at \$1.15lb.

Cascara Sagrada—Quoted firm at 15clb. for 1921 peel up to 16clb. for 1920 peel, as to seller. The curtailed gathering of bark on the Coast has had the desired effect on the spot market. A few weeks ago the bark was reported easy. Recently a number of inquiries were received on spot and on checking up the situation, it was found that supplies were not available in sufficient quantities to meet inquiries.

Cloves—Zanzibar quoted firm on spot at 29 1/2c @ 30c lb. with arrivals being offered in small lots at higher prices. Last week saw 1,000 bales entered at New York.

Dandelion Root—Offers from primary market are few with tendency for higher prices. Spot supplies are scarce and now quoted higher at 20clb. inside. One factor reported a round lot sale last week, which represented his entire stock.

Gentian Root—Firm at 8 1/2c @ 9clb. spot with some quarters holding at 8 3/4c @ 10clb.

Ginger—African held firm at 13 3/4c @ 14clb. spot with possibility of higher figures. Jamaica easy at 32c @ 42clb. spot as to quality.

Golden Seal Root—Firm and closely held at \$3.50 @ \$3.55lb. spot. Demand active, specially export.

Insect Powder—Quoted generally at 57clb. spot for pure goods with some holding firm at 60clb.

Japan Wax—While a leading factor is naming 16 1/2c lb., openly it is reported in the trade that a 25 case order was lost at 15 1/4clb. Spot named at 15 3/4c @ 16 1/2c lb. as to seller.

Mandrake Root—Firmly held at 18c @ 19clb. spot.

Myrrh Gum—Select quoted at 37c @ 40clb. spot and sorts at 36c @ 38clb. Exports from Aden during 1922 were 18,764 cwt., against 16,751 cwt. in 1921, of which United States received 5,004 cwt. in 1922 and 3,341 cwt. in 1921, and England 621 cwt. in 1922 and 356 cwt. in 1921.

Rhubarb—Easier at 43c @ 45clb. for whole with possibility of doing 42clb. on firm order.

Sarsaparilla Root—Mexican had advanced and now quoted at 34c@35lb. spot. During past week 70 bales were imported at New York.

Senega Root—Easy at 60c@62c/lb. owing to weak demand for export to England.

Vanilla Beans—Mexican whole quoted firm though in fair supply at \$8.50@\$11.00/lb. spot, and cuts at \$6.00 @ \$6.50/lb. spot. One large consumer, who advertises using Mexican beans exclusively, has cut the price of his manufactured product. The trade does not see how he can use these beans and reduce price of his product, unless they can be obtained at less than current quotations. Bourbon quoted at \$4.50@\$4.75/lb. spot. Last week saw 124 cases imported at New York, which are probably partly "sold to arrive."

"PEBECO" HEIRS GET \$1,000,000

The Government has refunded \$1,000,000 on a claim based on the sale by the Alien Property Custodian of the rights to the seized German trade-mark and formula of "Pebeco," a toothpaste. The refund was made by the Alien Property Custodian to the law firm of Lansing & Woolsey, counsel for the estates of the chemical firm of P. Biersdorf & Co., Hamburg, and to Arthur Peter, administrator of the estates of two of the heirs on the ground that the original owners were natives of Posen, which became Polish territory under the Versailles Treaty. Under an amendment to the Trading With the Enemy act of 1920 proceeds from sales of seized properties must be returned to persons of new States formed out of the former German Empire. Lehn & Fink, New York, were American agents for the sale of the paste.

NEW SELLING AGENT FOR SANTONIN

Eastern & Russian Trading Co., Ltd., of London, has been appointed sole selling agent for santonin by the Soviet Government of Russia, according to a cable received late on Monday. The former selling agents were F. Hoffmann-LaRoche & Co., Basle, who lost the concession owing to Russian-Swiss politics. The American branch of this company has been in favor of a substantial reduction in the price of santonin for the past year. Before returning the stocks carried on spot, this company had an order which it could fill at the present market price. But instead they chose to leave the order unfilled as they expected a drop in the near future.

Two firms in the pharmaceutical industry, Th. Teichgraber Gesellschaft, Berlin, and Moenania Gesellschaft fur Chemische und Pharmazeutische Producte, Mannheim-Darmstadt, have entered into a contract for increasing production, and selling their products.

Exports of kauri gum from Auckland, New Zealand, during May were 717 tons, valued at £65,553, of which the United States received 410 tons, England 304 tons, and Japan 3 tons, according to George H. Lincks, varnish gums, New York.

Adam Pfromm, proprietor of Adam Pfromm & Co., wholesale druggists, Philadelphia, on July 1 celebrated the sixtieth anniversary of his entry into the drug trade.

Frederick C. Herrington, president Burlington Drug Co., Burlington, Vt., died suddenly at his home on July 7. He was sixty-eight years old.

A judgment for \$184.95 has been entered in New York county by Jaburg Bros. against Oscar Dahlstrom, trading as O. Dahlstrom Drug Store.

Of Interest in the Trade

Great Britain obtained £632,435 of dyestuffs from Germany on the reparations account from December, 1919, to March 31, 1923.

Hugo Schlesinger, former president of Vera Chemical Co., Milwaukee, died recently in the Wauwatosa Sanitarium, Wauwatosa, Wis.

South African carbide imports have practically stopped, the requirements of 350 tons per month now being supplied by Rand Carbide, Ltd., according to G. K. Donald at Johannesburg.

Italian chemical industry comprises 430 establishments and employs about 100,000 persons. The manufacture of citrate of lime is passing through a crisis due to the prohibitive duties in force in nearly every foreign State.

An open competitive examination for junior chemist will be held throughout the United States, on Sept. 19, by the Civil Service Commission, to fill positions paying \$1,200 to \$1,800 a year, plus the increase of \$20 a month granted by Congress.

German chemical manufacturers are more inclined to erect factories in the Orient than in the United States, because of cheap labor, lower rate of taxation, and greater possibility of keeping processes secret, according to "Chemical and Metallurgical Engineering". The chief objection to such a plan would be the difficulty of securing raw materials.

Export licenses for shipment of goods from the Ruhr covered by contracts made prior to Feb. 1, 1923, will still be given consideration by the authorities in charge even though the time limit has expired, according to advices received by the Department of State. Licenses may be obtained through the American Embassy at Paris, and the American Consuls at Coblenz and Cologne.

Baltimore Drug Exchange will hold its annual outing on July 31, when the members will go by automobile to Cottage Grove Shore, Rock Creek, about sixteen miles from the city. The afternoon will be devoted to games, bowling, boating and swimming. The arrangements are in charge of George M. Armour, of McCormick & Co.; J. Emory Bond, of Parke, Davis & Co., and Parker Cook, of Emerson Drug Co.

A new chemical company, Chemische Fabrik Passendorf, Halle, has been formed with capital of 20 million marks under the auspices of Kathe Gesellschaft, Halle, and Scheidemandel Co., and has also concluded an Interessengemeinschaft with Vereinigte Drogen Gesellschaft, Vienna, for trading in chemicals in Germany and Holland. Vereinigte Drogen Gesellschaft is negotiating for a working agreement with two large Austrian firms in this line, the Chemosan Co. and Pharmaceutica Co.

Only one per cent of the liquor in approximately 80,000 samples analyzed by Industrial Alcohol & Chemical Division during the fiscal year ended June 30, 1923, was found to be genuine, says Federal Prohibition Commissioner R. A. Haynes. The samples analyzed were liquor seized in raids by prohibition agents, more than half of the analyses being made in the eight branch laboratories, located in Buffalo, Chicago, Columbus, Little Rock, Minneapolis, New York, San Francisco, and Philadelphia.

The Essential Oil Market

Current Spot Quotations of Essential Oils, page 253, Aromatic Chemicals, page 254

CITRONELLA HIGHER AND ORANGE LOWER

Owing to Higher Shipment Figures and to Inability of Speculators to Control Stocks, Respectively—Bergamot Advanced Sharply—Oil Cassia Scarce—Vanillin Cut Due to Competition

PRICE CHANGES IN NEW YORK (Stocks in First Hands)

Advanced	
Oil Bergamot, Coppers, 10c lb.	Oil Citronella, Ceylon, 2c lb.
Oil Cassia, Redistilled, 15c lb.	Oil Eucalyptus, 1 1/4c lb.
Oil Rose, Bulg., \$1.00 oz.	
Declined	
Oil Orange, West Indian, 10c lb.	Oil Rosemary, 2c lb.
Italian, 15c lb.	Oil Wormseed, 20c lb.
Musk Ambrette, 50c lb.	

Trend of the Market

	Today	Last Week	Last Month	Last Year	War Peak	Pre-War
Oil Bergamot	\$2.65	\$2.55	\$2.60	\$3.75	\$7.00	\$5.00
Oil Citronella, Ceylon	.72	.70	.70	.67	.92	.60
Oil Cloves	2.20	2.20	1.98	1.85	3.70	1.40
Oil Lemon Italian	.75	.75	.77	.65	1.70	2.00
Oil Peppermint, Nat.	2.65	2.65	2.65	1.95	9.00	2.25
Oil Sandalwood, E. I.	7.65	7.65	7.75	7.00	13.00	5.25
Oil Sassafras, Artif.	.45	.45	.45	.45	1.00	.26
Benzaldehyde, U.S.P.	1.50	1.50	1.50	1.40	5.15	1.50
Coumarin	4.50	4.50	4.50	3.00	31.00	3.10
Methyl Salicylate, Cans.	.57	.57	.57	.38	1.00	.90
Vanillin	.40	.41	.41	.30	.95	.29
Average	2.19	2.18	2.17	1.96	6.83	2.05

The current week compared with the week previous has shown a slight advance, especially in those items which have been scarce for the past six weeks. This firmness that prevails is in no way due to activity of buyers, but to generally higher quotations received on spot from primary markets. Goods have been moving only in routine quantities and the demand for those items that are seasonal has not come up to the most conservative expectations. Reports are heard from Canada that business is slow up there as well as in the States. Spot prices are adjusting themselves in accordance to the latest information about estimates of new crops. High priced oils of 1922 generally speaking are being followed up by larger crops, which tend to depress the market and cause low levels to prevail. Small dealers are enjoying good business, because demand at the moment appears to be in small parcels. The week has not passed without the usual bullish cables from abroad, which have checked price shading for the time being. Oil Ceylon citronella is quoted at 74c lb. c.i.f. New York. Oil cassia has advanced owing to scarcity on spot and small stocks available for shipment. Keen competition is being felt in vanillin. Oil orange, Italian, is lower. Oil bergamot has advanced sharply.

Essential Oils

Oil Amber—Quoted easy and quiet at 90c@\$1.00 lb. spot for rectified.

Oil Anise—Unchanged for the past nineteen weeks although each week the general report is heard that this item is weak. Still quoted easy at 45c@47 1/2c lb. spot for technical.

Oil Bay—Firm and unchanged at \$2.50@\$2.60 lb. spot.

Oil Bergamot—Coppers quoted higher at \$2.65@\$2.85 lb. spot as to seller due to higher shipment figures. Some quarters are of the opinion that at present quotations there will not be many offers confirmed on this side of the Atlantic. Tendency is to higher prices with importers playing the waiting game.

Oil Bois de Rose—Firm at \$2.50@\$2.65 lb. spot as to seller with shipment being named nearly equal to spot prices.

Oil Caraway—Easier though unchanged at \$7.00@\$7.25 lb. spot with tendency for trade to await arrival of new crop.

Oil Cassia—Has advanced sharply and now quoted inside at \$3.15@\$3.25 lb. spot as to seller owing to scarcity of stocks on spot and also to the small amount of goods coming out of China. During the current week a sale of 200 pounds was reported.

Oil Cedar Leaf—Firm at \$1.10 lb. spot. One house reported paying above this figure in the country.

Oil Citronella—Ceylon has advanced and now quoted at 72c@73c lb. spot for drums, and 74c@75c lb. spot for cans, with shipment being offered at 74c lb. c.i.f. New York. Although sales are being reported in fair sized way, the demand has not been equal to that of last year. England is quoting 3s 7 1/2d per pound. Quotations were also heard of 68c lb. c.i.f. New York for Schimmel tested oil, but for guaranteed pure oil, 74c lb. was asked. During past week 114 drums were entered at New York from Colombo. Java held at 85c@87 1/2c lb. spot.

Oil Cloves—Firm though unchanged at \$2.20@\$2.35 lb. spot for cans.

Oil Eucalyptus—Has advanced and now quoted at 45c lb. spot for drums owing to higher shipment figures. Rumors are heard that London has less than 4 tons of this item on spot there. Demand here is along routine lines. Past week saw 150 cases and 58 drums entered at New York.

Oil Geranium—Bourbon quoted firm at \$6.50@\$6.75 lb. spot with considerable activity being shown in primary market. An increase on spot in the near future is not unlikely. African quoted at \$8.00@\$8.50 lb. spot. During last week 14 casks were entered at New York from Marseilles.

Oil Lemon—Italian quoted easy at 75c@90c lb. spot as to seller and quantity owing to accumulation of stocks and slowing up of consumption. Last week saw 402 cases entered at New York. London is quoting 3s lb. With the decrease in price of imported, an easier quotation in domestic would not be unlikely. American quoted at 75c@80c lb. spot.

Oil Limes—Distilled unchanged and firm at 85c@90c lb. spot.

Oil Mustard—Artificial quiet at \$2.10@\$2.25 lb. spot.

Oil Orange—Bitter unchanged at \$2.60@\$2.70 lb. spot. Sweet West Indian lower at \$2.65@\$2.75 lb. spot. Italian has declined and now quoted at \$3.75@\$4.00 lb. spot due to slight over speculation. The recent sharp advances were unjustified according to advices received from the trade. American unchanged at \$3.30@\$3.40 lb. spot.

Oil Petit Grain—Firm at \$1.75@\$1.85 lb. spot for South American with tendency to higher prices as very little goods are coming out of primary market. Some stocks of Italian recently received are being held at \$1.95 lb. spot. During past week 75 cases of South American were entered at New York.

Oil Rose—Bulgarian quoted higher at \$6.50@\$7.00 oz.

as to quantity due to a shortage of about 25 per cent when compared to normal.

Oil Rosemary—Lower at 37½clb. spot for drums. Reports are heard that some stocks on spot are "doped" with camphor oil.

Oil Wormseed—Has declined and can now be obtained at \$7.00@\$7.25lb. spot probably owing to nearness of new crop goods. London is quoting 34s 9d lb. c.i.f. London as spot is about cleaned up.

Aromatic Chemicals

Benzaldehyde—Unchanged and in fair demand at \$1.50@\$1.60lb. spot for U.S.P. and \$1.75@\$1.85lb. spot for FFC.

Coumarin—Quoted firm by makers and in good demand at \$4.50lb. spot with possibility of obtaining small resale supplies at \$4.35lb. Contracts are still in force at \$3.75lb. with tendency on renewals to hold firm at \$4.50lb.

Methyl Salicylate—Quoted at 55c and 57clb. spot for drums and cans, respectively. Some resales available at 50c@52clb. spot.

Musk Ambrette—Has declined and now quoted at \$13.00@\$15.00 spot owing to easier shipment figures. Large lots reported moved in N. Y. at cut prices.

Terpineol—Higher at 52c@55clb. spot for drums.

Vanillin—Has declined because of keen competition and now quoted at 40c@40½clb. for 400 oz. cans as to seller.

Balsam Tolu—Scarce and in good demand at \$1.35@\$1.50lb. spot with tendency for diminishing supplies from primary market.

CHEMICAL CONTRACT DISCUSSED

In an editorial review of the standard contract for chemicals agreed upon recently by the Joint Committee of the Salesmen's Association and Chemical Manufacturers' Association the "Chemical Trade Journal," London, says: "The proposed contract form does not contain an arbitration clause, but as the movement in favor of arbitration as a means of settling commercial disputes is at present making great headway in the United States, it is not improbable that such a clause may, in the near future, be inserted. If the project does prove successful in America, the British chemical industry will be unable to neglect the lesson, and the standardised contract introduced by the British Chemical Trade Association over three years ago should arouse wider practical interest than it has done in the past."

PLAN FOR CHEMICAL WARFARE ABROAD

Foreign nations are outstripping America in chemical warfare development, according to reports reaching the American Chemical Society, which sees signs of danger in the disarmament treaties. Japan, the society states, is using German secrets, and in return is aiding German higher education.

"From observers recently returned," says the society in a bulletin, "we learn that Italy has organized a chemical warfare service of approximately twice the strength of our own; that Belgium has likewise organized a new service, and that both France and England continue active support of their services, which correspond to our Chemical Warfare Service."

American Chemical Paint Co., Philadelphia, Pa., will build a plant at Ambler, Pa.

Globe Soap Co., Los Angeles, Cal., will build a one-story plant, 96 x 125 ft.

Business Brevities

Electro Bleaching Gas Co. will move its offices into the new Burroughs Wellcome Building, 9 East 41st st., New York, on Aug. 4.

Non-Acid Fertilizer & Chemical Co., Lakeland, Fla., will build a plant at Fort Pierce, Fla., estimated to cost \$90,000, with machinery.

The Chicago branch of Innis Speiden & Co., gave its fifth annual picnic, June 19, at Des Plaines, to employees and their families and friends.

Fumigation of Hecker-Jones-Jewell Milling Co.'s warehouse, New York, with hydrocyanic acid, on July 21, resulted in the death of three employees.

Cresylic acid and phenol cost schedules under investigation by the Tariff Commission have been sent out to domestic manufacturers. The cost schedule of linseed oil will be ready during the current week.

Fertilizer for use in production of cotton in the South is being consumed on an average of 260 pounds per acre for all cotton States, compared with 251 pounds in 1922, according to the Department of Agriculture.

California Paint Remover Co., Los Angeles, Cal., will construct a one-story plant, estimated to cost \$30,000, inclusive of operating equipment. The proposed structure will be 115 by 160 feet, located on 14th st.

Carus Chemical Co., La Salle, Ind., have announced a reduction in the price of potassium titanium oxalate to 27c per pound, f.o.b. works. They state in connection with the cut, "Due to increased output and lack of demand. . . accumulated stock of this material."

Use of three pounds of sulfate of ammonia applied to fifteen York Imperial apple trees in an orchard at McBaine, Mo., resulted in a yield of 25.1 bushels per tree, as against 19.7 bushels per tree for fifteen trees without fertilization. This was a gain of 5.4 bushels per tree.

Hagerstown Lime & Chemical Co., Hagerstown, Md., has plans for a new plant for the manufacture of agricultural lime and kindred products, to include the installation of grinding and pulverizing machinery, to develop a daily capacity of about 100 tons. J. S. Myers is president.

Cajon Lime Proucts Co., San Bernardino, Cal., headed by W. F. Warner, Riverside, Cal., has plans in development for the construction of a plant at Cajon, near San Bernardino, estimated to cost \$200,000, including equipment. Lime deposits in this section will be developed to increase the company's production.

Bismuth sold in the United States, according to Government statistics, was 226,385 pounds, which included imported and domestic bismuth that was recovered in refining lead and tin bullion at three plants in the United States. The average price was \$2.26 a pound. About 300,000 pounds was recovered at these plants in each of the last two years.

Despite the enactment of the duty which took ferromanganese off the free list and imposed a duty of \$33.50 a ton in order to aid small producers in this country, only 8 per cent of the total consumption is supplied by mines in this country, and English producers are practically sold out until the end of the year. English ferromanganese is now quoted at \$125 per ton, delivered at Atlantic coasts, duty paid.

The Foreign Markets

Imports of Drugs and Chemicals, page 255

BULGARIAN OTTO OF ROSE HIGHER

London Also Reports Advances in Balsam Tolu, Isinglass, and Cloves—Prices Easier for Salicylates and Bromides—American Peppermint Oil Weaker

(Special Cable to DRUG & CHEMICAL MARKETS)

London, July 25—Balsam tolu, isinglass, cloves and Bulgarian otto of rose are higher. The market is firmer for eucalyptus oil, clove oil, and Japanese refined camphor.

Prices are easier for the salicylates and bromides, lithopone, hexamine, phenazone, phenacetin, Japanese mint oil, and American peppermint oil.

Drug auction sales take place Thursday, July 26.

German Burbach Co., engaged in the potash industry, and Upper Silesian Coke Works and Chemical Factories are preparing plants for the production of mixed fertilizers. Burbach Co. is negotiating with other large producers of chemicals with a view to co-operation. The Upper Silesian Coke Works and Fahlberg, List & Co., of Magdeburg, have concluded an Interessen-Gemeinschaft (a fusion of interests) in regard to chemical production. Fahlberg, List & Co. are increasing their share capital by 75 million marks. Upper Silesian Coke Works have also acquired Dusseldorf Camphor Works.

Companhia Brasileira de Productos Chimicos is receiving a loan of approximately \$120,000 from the Brazilian Government to assist it in erecting a caustic-soda factory in the city of Rio de Janeiro. As a guarantee for the loan, the company has pledged its present factory, which has been valued at \$235,000. During the year 1922, Brazilian imports of soda products from the United States were as follows: Soda ash, 668,530 pounds; soda bicarbonate, 31,718 pounds; sal soda, 28,500 pounds; and caustic soda, 12,568,935 pounds.

Dutiable exports from Russia consist mainly of fertilizers, bristles, certain wood products, seeds, santolin, rubber waste, copper and lead ores, and flax. The new duties differ little from those formerly in effect. Foreign firms desiring to purchase in Russia must first obtain permission to buy and export from the Commissariat of Foreign Trade. Proposals of this nature may be addressed to Arcos (Ltd.), 136 Liberty st., New York, or to Russian Trade Delegation, 68 Lincoln's Inn Fields, London, W. C. 2.

Exports of matches from Sweden, during 1922, are equal to pre-war years owing to ability to obtain phosphorus and paraffin, which were cut off during the war, thereby allowing Japanese manufacturers to make great inroads in the export markets.

German potash prices have been advanced 45.72 per cent over the price established in February owing to depreciation of the mark and increased cost of inland production, according to Trade Commissioner William T. Daugherty, at Berlin.

Four new chemical companies were established in Japan during April with capitalization of 2,000,000 yen, and during the first four months sixteen concerns were established with a total capital of 37,250,000 yen.

FOREIGN EXCHANGE

	Par	Current
Great Britain (pound sterling)	\$4.886	\$4.593
France (franc)	193	059
Italy (lira)	193	043
Germany (mark) per hundred	23.80	0003
Czechoslovakia (crown) per hundred	20.30	029
Poland (mark) per hundred	23.80	0007
Japan (yen)	499	486
Spain (peseta)	193	142
Holland (guilder)	402	392
Belgium (franc)	198	048
Switzerland (franc)	193	177
Sweden (crown)	268	265
Denmark (crown)	268	174
Argentina (peso)	424	340
Brazil (milreis)	279	104
China (Silver dollar—Hongkong)	789	521
(Tael—Shanghai, silver)	1.082	702
(Tael—Peking, silver)	1.156	733

Society of Chemical Industry's annual meeting was held at Cambridge, England, June 20-23, with President E. F. Armstrong presiding. The following officers were elected for the ensuing year: President, Dr. E. F. Armstrong (re-elected); vice-presidents, Dr. T. H. Butler, F. H. Carr, Prof. G. G. Henderson, Emile Mond (re-elected); ordinary members of council, Prof. P. P. Bedson, Dr. R. T. Colgate (re-elected), Prof. A. R. Ling, and Dr. Joseph Reilly.

Lake Color Trust, Russia, is soliciting a loan of 58,000 gold rubles to equip a factory for production of zinc white in Yaroslav with estimated yield of 80,000 poods of dry material annually.

Foreign Trade Opportunities

The Department of Commerce, Washington, D. C., has received the following inquiries for drugs, chemicals and accessories. Reserved addresses may be obtained from the Bureau and its district and cooperative offices. Request for each opportunity should be on a separate sheet and state opportunity number. The Bureau does not furnish credit ratings or assume responsibility as to the standing of foreign inquirers; the usual precautions should be taken in all cases.

Commodity	Number	City and Country or Agency
Chemicals	6973	Karachi, India.....Purchase
Chemicals	6997	Buenos Aires, Argentina.....Agency
Chemicals	6998	Geneva, Switzerland.....Agency
Chemicals	6999	Bordeaux, France.....Agency
Chemicals, heavy, dyes	6990	Wellington, New Zealand
Varnishes	6998	Geneva, Switzerland Agency
Drugs	6997	Buenos Aires, Argentina.....Agency
Drugs and perfumery	6999	Bordeaux, France.....Agency
Pharmaceutical products	6998	Buenos Aires, Argentina.....Agency
Plasters, rubber, zinc oxide	6971	Geneva, Switzerland Agency
Ammonium sulfate, in 50-ton parcels	7195	Stockholm, Sweden.....Purchase
Bones of cattle	7163	Melbourne, Australia.....Purchase
Caustic soda	7190	Hongkong, China.....Purchase
Chemicals	7149	Porto Alegre, Brazil.....Agency
Chemicals and perfumery	7196	Oporto, Portugal.....Agency
Paints	7150	Bombay, India.....Agency
Sulfate of ammonia	7165	Buenos Aires, Argentina.....Agency
Turpentine, 100 barrels	7138	Hongkong, China.....Purchase
Aniline dyes, and dry colors	7127	Antwerp, Belgium.....Purchase
Caustic soda, calcium chloride, soda ash	7066	Rangoon, India.....Purchase
Caustic soda, carbon, and rosin	7119	Trieste, Italy.....Purchase
Fertilizers and fertilizing materials	7087	Hamburg, Germany.....Agency
Oxalic acid, crystallized, in 10-ton lots	7094	Saloniki, Greece.....Agency
Chrome oxide anhydride	7029	Basel, Switzerland.....Agency
Chemicals for paper, rubber, textiles	7030	Christiania, Norway.....Purchase
Pitch and anthracene oil	7017	Milan, Italy.....Agency
Pharmaceutical supplies	7050	Paris, France.....Purchase
		Buenos Aires.....Agency

Leather Chemicals

MAKERS REDUCE BICHROMATE AGAIN; TITANIUM OXALATE ALSO LOWER

Yellow Prussiate of Soda Still Weak—Potassium Slightly Firmer—Menhaden Oil Easing on Slow Buying—Stocks Accumulating—Cod Oil Easier

Conditions have changed very little during the week in the leather chemical market. There is still a downward tendency to prices owing to the slowness of demand and the growing competition for the small amount of business in the field. The slowness with which the tanning industry is operating is due in the main to restricted production in the shoe centers at this time of the year, but with the resumption of business for Fall and Winter wear tanners are looking forward to better business. Chemicals are moving slowly and only in amounts sufficient to keep plants operating on a reduced scale, or on part time. Makers of potassium bichromate have again reduced prices owing to slack demand and competition. Prussiates are still weak with sodium selling as low as 12½c/lb., though quotations are named at 13c/lb. Yellow potassium prussiate is perhaps a little firmer due to limited stocks, but demand has also been slow. Shipments are named at 30c/lb. while spot goods are as high as 35c/lb. A large maker of potassium titanium oxalate has reduced prices below recent levels because of large supplies and a limited demand. Imported sulfide is still weak. Menhaden oil is weakening. Cod oil is easier.

Acid, Acetic—Sales have been dropping off gradually and the market has become quiet after recent activity. Prices are maintained by makers at the schedule of \$3.38@3.63 for 28% according to quantity in barrels; 56%, \$6.75@7.00; 70%, \$8.38@8.63; 80%, \$9.58@11.60; Glacial, \$12.78@13.53.

Acid, Lactic—The situation is without change with prices holding steady and demand more or less routine. Dark 22% at 4½c@5c/lb.; light, 5½c@6c/lb.; dark 44%, 9½c@10c/lb.; light, 11½c@12c/lb.; 66%, 16c/lb.; U.S.P., 55c@70c/lb.

Acid, Muriatic—The usual recession in buying is being experienced but prices are quoted at previous levels; 18° in tanks at 90c@\$1.00 at works and in carboys \$1.00@\$1.10; 20° acid in tanks \$1.00@\$1.10; in carboys \$1.25@\$1.50; 22°, \$1.75@\$2.00 in carboys.

Acid, Formic—Imported is being held at 12c@14c for the 90 per cent while domestic is practically out of the market. Fair demand reported.

Arsenic—Supplies of red are somewhat limited but buying has not been very active. Prices are holding at 15c@15½c/lb.

Bichromates—Though supplies are not large makers have reduced potassium bichromate to 10¼c@10½c/lb. Competition and slow demand are said to be reasons for the decline. Soda bichromate continues steady at 8c@8¼c/lb. with fair amount of business passing.

Epsom Salt—Consumers are only taking enough for their immediate needs and business is confined to small quantities. Domestic U.S.P. material is named at \$2.25. Imported is quoted at \$1.75@\$2.00.

Extracts—Demand is still quiet and only routine business is passing. Quotations are easier in some directions as sellers wish to move stocks. Logwood is held at 7c@12c/lb. according to quality and seller; 25 per cent hemlock at 3c@3¼c/lb.; chestnut, 2c@2½c/lb. for

the 25 per cent and 5¼c@6c/lb. for 60 per cent; myrobalans 25 per cent, 4c@5c/lb.; quebracho, 4¼c/lb. in barrels and 3¼c@4c/lb. in tanks; sumac, 7c@9c/lb.; osage orange, 7c@8c/lb.

Formaldehyde—Stocks are somewhat plentiful while demand has not been active. Prices are subject to shading on firm orders. Resale spot prices down to 14c/lb. with makers at 14½c/lb., works.

Prussiates—Consuming demand is slow and prices of sodium prussiate are still somewhat easy at 13c/lb. Potassium prussiate is a trifle firmer with not much available on spot though there is no demand. Shipments are quoted at 30c@30½c/lb. while spot is 32c@34c/lb. Red potash at 65c@67c/lb.

Sodium Sulfide—Imported material is still easy on accumulated stocks and slow demand. Solid 60 per cent down to 3c@3¼c/lb.; broken, 3½c@3¾c/lb.; crystals, 2¼c@2½c/lb. Domestic is steady with makers holding at 4¼c@5¼c/lb. for the solid 60 per cent and 5c@5¼c/lb. for broken; crystals, 2¼c/lb.

Soda Ash—Steady buying features this market with prices stable. Makers are making good deliveries on contract in spite of the general slowness in other chemicals. Contract prices are firm at \$1.45@\$1.50 for 58 per cent in bags at works. Spot prices for less than carlot business are \$2.00 per 100lbs. in bags and \$2.25 in barrels.

Titanium Potassium Oxalate—Supplies have been plentiful and demand somewhat slow. A reduction in price has been announced by one maker and prices are now down to 27c/lb. at works.

Cod Oil—Buying has been inactive and sellers are quoting lower prices. One reported at 58c per gallon. Generally quoted at 63c@65c gallon.

Neatsfoot Oil—Buying confined to immediate requirements at unchanged prices: 20° cold test, 16¼c/lb.; 30°, 15¼c@15½c/lb.; prime, 14¼c/lb.

Menhaden Oil—Operators are still holding at 48c@50c per gallon but buyers are holding off. One offer was reported at 40c with no takers. Buyers maintain prices are too high and little business is expected until sellers lower their present prices. Refined oils range from 72c@76c per gallon. Fishing operations reported satisfactory.

Sperm Oil—A moderate business is passing at recent prevailing prices; 38° held at 99c per gallon, spot, and 45° at 94c per gallon.

OTHER TANNING AND LEATHER MATERIALS

For reports on chemicals, oils, tanning extracts, and other raw materials for the leather industries not reported on this page, see the general market reports on the thirteen preceding pages. For the current market quotations on chemicals and allied products, with specifications and packing, see price list beginning on fifth page toward the back of the book. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.

Paper Chemicals

SULFATE OF ALUMINA WEAKENING; BETTER GRADES OF ROSIN ADVANCE

Most Sellers of Bleaching Powder on Same Basis— Casein Prices Continue Easy—Salt Cake in Limited Supply—Restricted Buying in Paper Chemicals

Business has been more or less routine during the week. Mills were not inclined to purchase ahead and most of them seemed to have sufficient supplies for present needs. Makers and dealers are looking for more active business with the arrival of cooler weather, and until then it will be difficult to interest buyers in requirements for the future. Makers of bleaching powder are practically all on the same price basis, though one or two state that they are still at the old levels. Chlorine has been moving well considering the season of the year. Not all makers of sulfate of alumina are adhering to their recent prices and the general trend of the price of this material has been toward \$2.25 owing to competition and a slow demand. Salt cake is still somewhat limited in supply and prices are firmly maintained. Imported casein is easier while domestic material is holding steady. The better grades of rosin have been advanced, as buying in domestic and foreign markets shows improvement.

Acid Muriatic—The usual recession in buying is being experienced but prices are quoted at previous levels; 18° in tanks at 90c@\$1.00 at works and in carboys \$1.00@\$1.10; 20° acid in tanks \$1.00@\$1.10; in carboys \$1.25@\$1.50; 22°, \$1.75@\$2.00 in carboys.

Acid, Sulfuric—Buying is on a smaller scale though a fair volume is reported for the season of the year. Makers are holding prices steady at \$15.00@\$16.00 ton in tanks at works for 66° acid; drums, \$1.10@\$1.25; carboys, \$1.25@\$1.75; 60° acid in tanks, \$9.00@\$10.00 ton; drums, 60c@90c. Oleum is still somewhat limited in supply though demand is less than it has been. Makers name \$18.00@\$19.00 ton in tanks at works.

Aluminum Sulfate—With a slackening in buying there has been tendency for some makers to shade prices somewhat. Reports are current that iron free is being sold at \$2.25 though quotations are generally made at \$2.40@\$2.50. Imported is named at \$2.25. Commercial is quite steady at \$1.40@\$1.50 in carlots of bags at works.

Blanc Fixe—Prices are unchanged with domestic quoted at \$75.00@\$80.00 per ton as to quantity and seller. Pulp at \$50.00@\$55.00 ton. Demand is along routine lines. Imported material is held at \$70.00@\$72.00 ton for the dry.

Bleaching Powder—With consumers only taking enough for their immediate requirements the volume of business is not of large proportions but satisfactory for the time of the year. Prices are named at \$1.75@\$1.90 according to makers at works. Spot prices named at \$2.25@\$2.50 per 100lbs. as to quantity.

Casein—Imported material can be had at 14c@15c/lb. as to grade and quantity while domestic is held at 16c@18c/lb. A fair volume of business is reported.

China Clay—Consumers are not inclined to purchase ahead and buying is confined to immediate requirements. Domestic material is named at \$10.00@\$15.00 ton while imported is quoted at \$16.00@\$22.50 as to quality.

Chlorine—A good volume of business is passing con-

sidering the quiet season. Makers quote tank cars at 5c@5½c/lb. while cylinders are from 6c@9c/lb. as to quantity and location.

Salt Cake—Stocks are none too plentiful but adequate for present demands. Producers are quoting \$23.00@\$27.00 ton at works.

Satin White—Prices are maintained at 1½c/lb. though buying is restricted at present to immediate requirements.

Sodium Silicate—Buying is more or less routine in nature with prices holding at recent levels. Spot supplies of 40° material is quoted at \$1.30@\$1.40 per 100lbs. in drums; in tanks at works, 70c; 60° held at \$1.70@\$1.90, works.

Soda Ash—Steady buying features this market with prices stable. Makers are making good deliveries on contract in spite of the general slowness in other chemicals. Contract prices are firm at \$1.45@\$1.50 for 58% in bags at works. Spot prices for less than carlot business are \$2.00 per 100lbs. in bags and \$2.25 in barrels.

Soda Caustic—Export buying has been fairly active during the past week with prices at a range from \$3.10@\$3.25 according to make. Spot business is being done at \$3.40@\$3.70 depending upon brand. Makers are steady with contracts for 76% in drums at \$3.16½ in carlots at works.

Rosin—Large consumers are showing more interest and the market has assumed a stronger tone. Dealers have advanced prices of the better grades, while lower and medium grades are unchanged. B, \$5.90; D to K, \$6.00; M, \$6.05; N, \$6.75; WG, \$7.00; WW, \$7.25.

Production of different grades of paper with a few exceptions during May continued well ahead of that of the previous record year, 1920. The gain in production was particularly marked, as disclosed by figures compiled by the Federal Trade Commission, in newsprint output. Newsprint production during May amounted to 138,868 tons, against 129,950 tons last year and 129,230 tons in 1920.

The Canadian pulpwood embargo has been postponed until American interests have been heard, according to advices from the State Department, who regard the threatened embargo as one of the most serious commercial problems in recent years. The Department of Commerce and the Tariff Commission take the position that the embargo would destroy the American industry.

OTHER PULP AND PAPER MATERIALS

For reports on chemicals, bleaches, fillers, and other raw materials for the pulp and paper industries not reported on this page, see the general market reports on the thirteen pages immediately preceding LEATHER CHEMICALS. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on fourth page toward the back of the book. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.

Rubber Chemicals

PRODUCERS ADVANCE METHYL ACETONE; CARBON BLACK IN ACTIVE DEMAND

Acetone Demand Active—Large Shipment of Talc From Genoa—Aniline Oil Easy—Imported China Clay Demand Active—Little Forward Business—Generally Quiet and Dull

In spite of the general slowing down in the rubber industry, a few items have shown activity during the week, such as methyl acetone and carbon black. A downward movement was registered, beginning in March and ending at the present moment. Whether or not it will go further remains to be seen. However, Fall is not so far off when business in general picks up. The trade does not expect the tire manufacturers to first feel the expansion, but small rubber articles no doubt will broaden out as other lines expand. One quarter reported that things can never be so dull as not to make any sales, and that there is always business to be found providing one goes after it. Benzene is still in good supply in spite of slight increase in demand. Some easing off in consumption of acetic acid is reported. Lithopone can be shaded on spot, although futures are in good demand. The heavy importation of talc from Genoa may cause a break in the market providing it is not "sold to arrive." Carbon black, though firm, is being offered in better supply. All accelerators are reported quiet. As the Autumn months approach, dealers feel inclined to do less shading, as they are almost certain to receive more for their goods.

Acid, Acetic—Sales have been dropping off gradually and the market has become quiet after recent activity. Prices are maintained by makers at the schedule of \$3.38@3.63 for 28 per cent according to quantity in barrels; 56 per cent, \$6.75@7.00; 70 per cent, \$8.38@8.63; 80 per cent, \$9.58@11.60; Glacial, \$12.78@13.53.

Aniline Oil—Demand at the moment appears to be at a standstill. Spot quoted at 16c/lb. with possibility of doing better than this at works. Tanks are being offered at slight concessions. Production appears to have been too heavy for the limited amount of consumption.

Acetone—Spot quoted at 30c@32c/lb. for C.P., and 25c@25½c/lb. for drums at works. Supplies continue scarce and all offerings appear to be absorbed on presentation. Methyl has advanced again and now quoted at \$1.15@1.20 gal. as to quantity owing to scarcity of raw materials.

Antimony Sulfide—Quiet at 19c@20c/lb. for golden with some quarters asking 20c@25c/lb. spot. Crimson named at 38c@39c/lb. spot.

Benzene—Sales have been on the increase in this item, but sufficient stocks remain to keep prices down too close to actual production costs. Quoted easy at 25c@27c gal. for 90 per cent and 27c@30c gal. for pure.

Blanc Fixe—Market is unchanged at 4c@4½c/lb. f.o.b. New York, and \$40@50 ton for pulp with possibility of shading these figures on firm business.

Carbon Black—Market is still steady at 19c@22c/lb. f.o.b. New York, and 16c/lb. for C.I. Goods are moving along regular lines with tendency for unheard of supplies to creep on the market.

China Clay—Demand active especially for imported material. Domestic quoted \$13.00@20.00 ton as to quality at points of production, and imported at \$18.00@24.00 ton with tendency for firmness. Contracts are reported not quite up to normal, but inquiries are said to be coming in in good numbers.

Diphenylguanidine—Demand along steady lines at \$1.15@1.20/lb. spot as to quantity.

Ethylidene Aniline—Quoted easy at 55c@60c/lb. spot as to quantity.

Hexamethylene—Impalpable powder is reported to be on the inactive list at the moment at 95c/lb. spot.

Lithopone—Future deliveries are being closed with advantage to seller, but spot sales are easy and if business appears, competition is usually keen to obtain it. Quoted at 7c@7½c/lb. at works.

Sulfur—With slowing down of business in the rubber industry, this item has been directed along other lines of consumption. Commercial flour quoted at \$1.35@1.70 unit; superfine, \$2.00@2.40; and chloride at 5c@6c/lb. at works.

Talc—Demand is along routine lines with domestic quoted at \$15@18 ton f.o.b. works; French, \$20; high-grade French, \$40; and Italian, \$47@58 ton as to quality. During past week 4,100 bags were entered at New York from Genoa.

Whiting—Unchanged with demand routine at \$1.00 unit for commercial; gilders' bolted, \$1.10; extra gilders' bolted, \$1.15; and English cliffstone, \$1.50 per 100 pounds.

Net profits of Fisk Rubber Co., for the first three months of 1923, after charges for depreciation and interest had been deducted, were approximately \$1,050,000. A full year's dividend on the first preferred requires \$1,326,605; thus to earn the full dividend in six months the company needed to add only \$276,605 to the first quarter's net. There are now two years' dividends, or \$14 a share, accumulated on the first preferred; in spite of the large earnings, however, it is not expected that dividends will be resumed at the August meeting. If not, \$15.75 in dividends will have accumulated.

Crude rubber stocks in London have shown a steady decline since the beginning of February and are at present under 50,000 tons, the lowest point in two years. Total is 20,000 tons less than at the same time last year and more than 24,000 tons below Jan. 29, when the decline began. Present stocks are equivalent to six weeks' supply at the rate of consumption early this year and are considered normal.

Exports of rubber goods from United States during May were valued at \$3,431,676 and for the eleven months ending May 31, \$34,408,643, an increase of \$6,562,601 over the same period last year.

OTHER COMPOUNDING INGREDIENTS

For reports on chemicals, solvents, fillers, vulcanizing compounds, colors, and other raw materials for the rubber industries not reported on this page, see the general market reports on the thirteen pages immediately preceding LEATHER CHEMICALS. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on third page toward the back of the book. Prices are for goods f.o.b. New York or works prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.



ELLIS JACKSON & COMPANY

18 NO. FRONT STREET

PHILADELPHIA

Foreign Department

29 BROADWAY, NEW YORK

**GLASS, SOAP, PAPERMAKERS,
TEXTILE and FERTILIZER SUPPLIES**

Textile Chemicals

TEXTILE CHEMICALS CONTINUE QUIET PRICES SHOW FRACTIONAL DECLINE

Bleaching Powder Makers Nearly All at \$1.75—Potassium Bichromate Again Reduced—Imported Sodium Sulfide Continues Weak—Glauber's Salt Firm

Business in textile chemicals has been desultory and in line with the general condition of the chemical market during the summer months. Many mills are closed down for the summer or are only operating on reduced schedule. Consumption of chemicals is therefore at a minimum and is of the hand-to-mouth variety. Although prices are becoming more attractive to the buyers, they are unwilling to contract ahead for future supplies owing to the uncertainty of the future. While there is a feeling that there will be a resumption of business before the end of August, makers, dealers and importers are anxious to move supplies which have been accumulating. This has led to price shading here and there, though quoted prices are still the same. The firm position of the alkalis has had stabilizing influence in the market without which prices of all commodities would have suffered a total collapse. Demand for ash and caustic continues steady for domestic trade while export business has improved. Bleaching powder has settled to a \$1.75 level. Potassium bichromate has been reduced $\frac{1}{2}$ clb. to $10\frac{1}{4}$ clb. Imported sodium sulfide is plentiful and weak in price. Prussiates are quiet and weak. Calcium arsenate has almost collapsed owing to a lack of demand for insecticides in the cotton fields this year. Glauber's salt is firm due to limited supplies.

Acid, Acetic—Sales have been dropping off gradually and the market has become quiet after recent activity. Prices are maintained by makers at the schedule of \$3.38@3.63 for 28% according to quantity in barrels; 56%, \$6.75@7.00; 70%, \$8.38@8.63; 88%, \$9.58@11.60; Glacial, \$12.78@13.53.

Acid, Oxalic—Competition is somewhat keen for present business and prices are subject to shading in some quarters. Makers are naming $12\frac{1}{4}$ c@ $12\frac{1}{2}$ clb. at works while spot is held at 13clb. Imported quoted at 12c@ $12\frac{1}{2}$ clb.

Bleaching Powder—With consumers only taking enough for their immediate requirements the volume of business is not of large proportions but satisfactory for the time of the year. Prices are named at \$1.75@1.90 according to makers at works. Spot prices named at \$2.25@2.50 per 100lbs. as to quantity.

Epsom Salts—Domestic U.S.P. is quoted at a range from \$2.25@2.50 as to quantity though some business has been put through slightly under these quotations. Imported is named at \$1.75@2.00. Competition is more evident with slackening in demand.

Glauber's Salt—Makers are firm in the prices owing to limited stocks on hand and a decrease in production during the summer. U.S.P. is named at \$1.40@1.75 as to quantity at works in barrels; technical held at \$1.35@1.40 in barrels and \$1.20 in bags. Imported is offered freely at 85c@95c per hundred and a few offerings are as low as 75c.

Potash Caustic—Prices appear to have hardened at $7\frac{1}{4}$ c@ $7\frac{1}{2}$ clb. for imported 88-92%. Demand has been quiet and only routine business is passing. Domestic is held at 9c@10clb. at works.

Prussiates—Consuming demand is slow and prices of sodium prussiate are still somewhat easy at 13clb. Potassium prussiate is a trifle firmer with not much available on spot though there is no demand. Shipments are quoted at 30c@ $30\frac{1}{2}$ clb. while spot is 32c@34clb. Red potash at 65c@67clb.

Soda Ash—Steady buying features this market with prices stable. Makers are making good deliveries on contract in spite of the general slowness in other chemicals. Contract prices are firm at \$1.45@1.50 for 58% in bags at works. Spot prices for less than carlot business are \$2.00 per 100lbs. in bags and \$2.25 in barrels.

Soda Caustic—Export buying has been fairly active during the past week with prices at a range from \$3.10@3.25 according to make. Spot business is being done at \$3.40@3.70 depending upon brand. Makers are steady with contracts for 76% in drums at \$3.16 $\frac{1}{2}$ in carlots at works.

Sodium Sulfide—Domestic makers report a steady consumption at steady prices. Solid 60% at $4\frac{1}{4}$ c@ $5\frac{1}{4}$ c lb.; crystals, $2\frac{1}{2}$ clb. Imported is moving very slowly and stocks have accumulated. Offerings are down to 3c@ $3\frac{1}{2}$ clb. for solid 60 per cent material. Crystals, $2\frac{1}{4}$ c@ $2\frac{1}{2}$ clb.

Starches and Dextrines

Little activity is noted with buyers only taking on enough for present purposes and not anticipating for the future. Prices are holding steady at former quotations. Starches, \$3.22@3.32 for powdered; pearl, \$3.12; potato, $4\frac{1}{2}$ c@5clb. White corn dextrine, \$3.79@3.89; canary, \$3.84; potato, 7c@ $7\frac{1}{4}$ clb.

Du PONT'S CHOOSE SITE FOR FIBER PLANT

E. I. du Pont de Nemours & Co., Wilmington, Del., will build a \$4,000,000 silk fiber plant on the Old Hickory property, Jacksonville, Tenn. About 500 acres were recently purchased from the Nashville Industrial Corp. for \$550,000. The plot is on the Cumberland river, northwest of the powder plant reservation. Wood pulp obtained from the spruce forests of Maine will form the basic raw material. The reasons given for selecting this site in preference to any other are the water supply and the availability of labor. About 2,000 operatives will be employed.

American Woolen Co., opened its men's wear staples for Spring Monday, prices showing increases of 6.1 per cent over fall prices named last January and an average of 11 per cent over spring prices a year ago.

OTHER TEXTILE MATERIALS

For reports on chemicals, oils, fillers, finishing compounds, bleaches, and other raw materials for the textile industries not reported on this page, see the general market reports on the thirteen pages immediately preceding LEATHER CHEMICALS. For current market quotations on chemicals and allied products with specifications and packing, see price list beginning on next page toward the back of the book. Prices are for goods f.o.b. New York or works for prompt shipment unless otherwise specified. Read full explanation on first page of price quotations.

Prices Current of Fine and Heavy Chemicals, Drugs, Essential Oils, Dyestuffs and Oils

CLASSIFICATION—Prices quoted herein are listed in the following groups: **Chemicals**, including heavy and technical chemicals, fine and medicinal chemicals, aromatic chemicals and isolates, crudes and intermediates from coal-tar, various fine alkaloids, and miscellaneous products; **Crude Drugs, Essential Oils**, including oleoresins; **Fatty Oils**, including Animal, Vegetable and Fish Oils, Greases, Fats, and Tallow; **Tanning and Dye Extracts**, including miscellaneous natural tanning woods, extracts, etc. All groups are arranged in straight alphabetical order.

Packages—Prices are for large quantities in original packages of the customary trading units of weight or measure. A container given in connection with a price does not necessarily mean that this is the quantity on which the price is based. Containers named are the original packages most commonly sold in this market.

QUOTATIONS—Chemical prices quoted herein are those of American manufacturers unless otherwise specified. Quotations on imported chemicals are so designated. Where resale or "second hand" stocks of any chemical product are sufficient to be considered a factor in determining the market, prices for goods in this class will be quoted in addition to makers' prices available, and indicated as such. Chemical prices quoted herein are for goods spot New York or Metropolitan

District, f. o. b. or ex-store, for immediate shipment, unless otherwise specified. Numerous domestic-made heavy or industrial chemical products are sold principally on a basis of f. o. b. works, and are thus quoted in the list herein, each instance of a "works" price, however, being specified as such.

Fatty Oils prices quoted herein are for goods spot New York unless otherwise noted; f. o. b. mills and Coast prices being designated as such. Crude Drugs and Essential Oils are quoted f. o. b. New York (Manhattan with limitations) for immediate shipment. Tanning and Dye Extracts are quoted spot New York unless otherwise noted.

WEIGHTS AND MEASURES—All quotations are made on a basis of avoirdupois pounds and ounces, and American gallons. The following equivalents are given for the reference of exporters, importers, and foreign buyers:

1 Imperial Gallon (British)	—1.20	American Gallons
1 American Gallon	— .833	Imperial Gallon
1 American Gallon	—3.79	Liters
1 Liter	— .264	American Gallon
1 American Gallon (Water)	—8.35	Pounds
1 Pound (Avoirdupois)	— .454	Kilograms
1 Kilogram	—2.20	Pounds

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Chemicals

ACETANILID, tech. 150 lb bbls.27	.28
100 lb kgs.28	.30
USP 200 lb bbls.32	.33
Second Hands . . . . .	.31	
Acetic Anhydride, 85% 480 lb drs. . . . .	.38	
85%, 107 lb chys. . . . .	.38	
92-95% 100 lb chys. . . . .	.43	.45
Acetone, CP 700 lb drs. c/l wks. . . . .	.25	
700 lb drs. c/l wks. . . . .	.25 1/2	
350 lb drs. c/l wks. . . . .	.25 1/2	
Second Hands, spot. . . . .	.30	.32
Acetone Oils, light, bbls, wks.	1.00	1.05
Heavy, bbls., wks.	1.00	1.05
Acetophenone, CP 1 lb bot.	4.00	4.25
Acetphenetidin, 150 lb bbls.	1.85	1.95
Acetyl Chloride, 100 lb chys. . . . .	.40	.41
ACID, 1, 2, 4, 250 lb bbls. . . . .	. . .	1.30
Acetic, 28%		
wks. . . . .	.33	
28%, c/l wks. . . . .	.36	
56%, c/l wks. . . . .	.675	
56%, c/l wks. . . . .	.700	
70%, bbls. c/l wks. . . . .	.838	
70%, c/l wks. . . . .	.863	
80% coml. bbls. c/l wks. . . . .	.958	
80% pure bbls. c/l wks. . . . .	.983	
80% pure c/l wks.	11.41	
80% pure c/l wks.	11.60	
Glacial, bbls. c/l wks.	12.78	
Glacial, c/l wks.	13.03	
Glacial, USP c/l wks.	13.53	
Acetyl Salicylic, 220 lb bbls. . . . .	.85	.90
Second Hands . . . . .	.82	.83
Anthranilic, ton lots drs. . . . .	. . .	.96
Butyric, 60% pure 5 lb bot.	1.00	1.10
99-100%, 100 lb drs. . . . .	. . .	1.20
Benzoic, tech. 100 lb bbls. . . . .	. . .	.75
Tech. ton lots . . . . .	. . .	.70
USP, 100 lb bbls. . . . .	.73	.77
Boric, crys. powd. 250 lb bbls. . . . .	.11	.11 1/2
Kgs. 100 lb . . . . .	.11 1/2	.13
Bronner's, 250 lb bbls. . . . .	. . .	1.55
Butyric, 60% pure 5 lb bot. . . . .	.60	.60
C.P. 10 lb bot.	1.25	1.50
Camphoric, USP, VIII 1 lb bot.	5.50	5.60
Carbolic, USP crys. see also Phenol		
110 lb tins . . . . .	.42	.47
25 lb tins . . . . .	.44	.49
5 lb tins or bot. . . . .	.46	.52
1 lb bot. . . . .	.51	.56
Liquid USP, 1 lb bot. . . . .	.50	.55

ACID, Carbolic—(Continued)

Crude, 25% 50 gal. bbls. . . . .	.35	.36
10%, 50 gal. bbls. . . . .	.30	.32
Chloracetic,		
monow 100 lb bbls. wks. . . . .	. . .	.30
DL 150 lb chys. wks. . . . .	. . .	1.00
Tri. 425 lb bbls. wks. . . . .	. . .	2.45
Chloroformic, 1500 lb drs.		
wks. . . . .	.15	.16
Chromic, USP 200 lb drums. . . . .	. . .	.40
85% Pure, 300 lb drums. . . . .	. . .	.35
Chromotropic, 300 lb bbls. . . . .	. . .	1.25
Chrysophanic, see Chrysarobin		
Cinnamic, 5 lb cans.	3.00	3.25
CITRIC, USP crys 230 lb bbls. . . . .	. . .	.49
Powd., USP 200 lb bbls. . . . .	. . .	.50
Imported, crys. 112 lb kgs. . . . .	.50 1/2	.51 1/2
Single kgs. . . . .	.51 1/2	.52 1/2
Cleves, 250 lb bbls.	1.00	1.10
Cresylic, 95% dark dr. NY. . . . .	.85	.90
97-99% straw, drs. wks. . . . .	. . .	. . .
97-99% pale, drs. NY. . . . .	.90	1.00
97-99% decolor. drs. wks. . . . .	. . .	. . .
Crude, spot, drums. . . . .	. . .	.70
Diethylbarbituric, 10 lb lots,		
1 lb bot.	8.50	10.50
Formic, 75% tech. 100 lb chys. . . . .	.11	.12
90%, 75 lb chys. incl. . . . .	.12	.14
Gallie, USP 150 lb bbls. . . . .	.70	.75
Gamma, 225 lb bbls. wks.	1.80	1.90
Bbls., ton lots wks.	1.70	1.80
Glycerophosphoric, 25% 1 lb b.	1.65	1.70
H 225 lb bbls. single. . . . .	. . .	.80
Hbls., ton lots wks. . . . .	. . .	.75
Hydrolic, 10% USP 5 lb bot. . . . .	.65	.70
Hydrobromic, 48% coml. 155 lb		
chys. wks. . . . .	.35	.40
48% coml. 10 chys. wks. . . . .	. . .	.40
40% USP 155 lb chys. wks. . . . .	.45	.46
10% USP 100 lb chys. wks. . . . .	.11	.13
Hydrochloric, see also Acid Muriatic		
CP, USP, 110 lb chys. . . . .	.09	.11
HYDROFLUORIC, 30% 400 lb bbls.		
wks. . . . .	. . .	.07
30% bbls. c/l wks. . . . .	. . .	.06
30% 100 lb chys. wks. . . . .	. . .	.07
48% single 100 lb chys. wks. . . . .	. . .	.11
48% 10 chys. wks. . . . .	. . .	.10
52% 100 lb chys. wks. . . . .	. . .	.12
52% 10 chys. wks. . . . .	. . .	.11

Acid, hydrofluoric—(continued)

60% 100 lb chys. wks. . . . .	. . .	.14
60% 300 lb dr. wks. . . . .	. . .	.13
White Acid, 100 lb chys. wks. . . . .	. . .	.26
White Acid, 10 chys. wks. . . . .	. . .	.25
Hydrofluosilicic, 35% 450 lb bbls. . . . .	.10	.12
Hypophosphorous, USP 30% 5 gal. demis. . . . .	. . .	.95
USP, 10% 5 gal. demis. . . . .	. . .	.38
LACTIC, 22% dark 500 lb bbls. . . . .	.04 1/2	.05
22% light, bbls. . . . .	.05 1/2	.06
44% dark, bbls. . . . .	.09 1/2	.10
44% light, bbls. . . . .	.11 1/2	.12
66% bbls. . . . .	. . .	.16
USP IX 100 lb chys. . . . .	.60	.70
USP VIII 100 lb chys. . . . .	. . .	.55
Laurent's, 250 lb bbls. . . . .	. . .	.90
Metanilic, 250 lb bbls. . . . .	.80	.65
Mixed, sulfuric-nitric		
Drums, wks.	N Unit	.07 1/2
Drums, wks.	S Unit	.01
Tank cars, wks.	N Unit	.07 1/2
Tank cars, wks.	S Unit	.009
Molybde, 85% pure 1 lb bot.	1.75	1.85
85% pure, 100 lb kgs. . . . .	. . .	1.30
Monosulfonic F, Delta, 50 lb . . . . .	. . .	2.30
MURIATIC, 20° chys. c/l wks.	1.40	1.50
chys. c/l wks.	1.25	1.30
Tank cars, wks.	1.00	1.10
18°, 120 lb chys.		
c/l wks.	1.00	1.10
22°, 120 lb chys. . . . .	.90	1.00
c/l wks.	1.75	2.00
Iron, free 20° chys.		
c/l wks.	1.85	1.95
Tank cars, wks.	net ton 20.00	25.00
Muriatic, CP & USP, see Acid Hydrochloric		
Naphthionic, tech. 250 lb bbls.63
Refined, single bbls.65
Neville & Winther's, 250 lb bbls.	1.25

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Case: 12 bots.

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C. P. 47 & 112 lbs.

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Carboys:
Tech. 50 & 130 lbs.
C. P. 50 & 137 lbs.

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Carboys:
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ACID, NITRIC, 36° 135D			Acid Sulfuric			ALCOHOL—(continued)		
Chy. wks.100D	4.75	: 5.00	Tank cars, wks.net ton	9.00	: 11.00	Butyl, 50 gal. drums.D	...	: 40
Chy. c/l wks. ....100D	4.50	: 4.75	C. P. 175D chy. ....100D	.09	: .11	Cinnamic, liquid, 1 lb bot. ....D	12.00	: 16.00
38° single chy. wks. ....100D	5.50	: 5.75	Oleum, 20 p.c. 1500D drums,			Crystallizable ....D	16.00	: 18.00
Chy. c/l wks. ....100D	5.25	: 5.50	le/l wks. ....100D	1.50	: 1.75	Isobutyl, crude 50 gal. drums.gal	...	: 4.40
42° Single chy. wks. ....100D	6.00	: 6.50	Drums, c/l wks. ....100D	1.25	: 1.50	Refined, 10D can. ....D	...	: 75
Chy. c/l wks. ....100D	5.75	: 6.00	Tank cars, wks. ....net ton	18.00	: 20.00	Isopropyl, crude 50 gal. drs. ....gal	...	: 2.25
44° Single chy. wks. ....100D	6.75	: 7.50	Contract cars, wks. ....ton	...	: 18.00	Refined, 50 gal. drs. ....gal	4.00	: 4.50
Chy. c/l wks. ....100D	6.50	: 7.00	Oleum, 40% drs le/l wks.net ton	...	: 40.00	Ref'd, 91%, drs. ....gal	...	: 3.50
C. P. chy. single wks. ....100D	.14	: .16	Oleum, 60% drs, le/l wks. net	...	: 70.00	Methyl, see Alcohol, Wood		
Oxalic, 325D bbls. wks. ....D	.12½	: .13½	Sulfurous, USP 6% 100D chy. D	.05	: .06	Phenylethyl, see Phenylethylalcohol		
Bbls. NY ....D	.13	: .13½	4% 100D chy. ....D	.04	: .05	Propyl, nml. crd 50 gal. drms.gal	...	: 4.40
Kegs, 100D NY. ....D	...	: .13½	USP, 5 gal. dems. ....D	.06	: .08	Refined, 10D can. ....D	...	: 75
Imp., 560D casks. ....D	.12	: .12½	Tannic, tech. 300D bbls. ....D	.40	: .50	Denatured		
Phenylacetic, 1 lb bot. ....D	3.00	: 3.25	USP, powd. 200D bbls. ....D	.70	: .75	No. 1 Complete Denat. 188 Proof		
Phosphoric, 50% tech. 100D			USP, stuffy, 50D bbls. ....D	.75	: .80	50 gal. bbls. incl. ....gal	.46	: .48
USP, 85% syrup, 70D			Tartaric USP cryst 300D bbls. D	...	: .37½	50 gal. drums, extra. ....gal	.41	: .43
demis. ....D	...	: .18	USP, powd. 300D bbls. ....D	...	: .37½	No. 1 Special Denat. 190 Proof		
Phthalic, see Phthalic Anhydride			Imp. USP, 240D bbls. ....D	.34½	: .35	50 gal. bbl. incl. ....gal	.44	: .46
Picramic, 300D bbls. ....D	...	: .65	Powd. 240D bbls. ....D	.34½	: .35	50 gal. drums, extra. ....gal	.38	: .40
Pieric, 450D bbls. ....D	...	: .30	Tobias. 250D bbls. ....D	1.20	: 1.30	No. 5 Complete Denat. 188 Proof		
Bbls. car lots wks. ....D	.20	: .25	Tungstic, 100D kegs. ....D	...	: 1.00	50 gal. bbls. incl. ....gal	.43	: .45
Pyrogallie, crys. 5D cans. ....D	...	: 1.20	Valeric, C.P., 10D bot. ....D	4.00	: 4.25	50 gal. drums, extra. ....gal	.37	: .39
Resublimed, 5D cans. ....D	1.65	: 1.60	Aconitine Alk. cryst. 1 oz. vis. oz	...	: 30.00	No. 6 Complete Denat. 188 Proof		
Tech. powd., 200D bbls. ....D	...	: .80	Amorphous, 1 oz. vis. ....oz	...	: 20.00	50 gal. bbls. incl. ....gal	.41	: .45
Sulleylic, tech. 125D bbls. ....D	.37	: .40	Adeps Lanæ, hydrous 350D bbls.D	.21	: .23	50 gal. drums, extra. ....gal	.36	: .38
USP, 100D bbls. ....D	.40	: .45	Anhydrous, 350D bbls. ....D	.23	: .24			
Second Hands ....D	...	: .40	Albumen, Egg, edible. ....D	...	: 1.05			
Sulfanilic, 250D bbls. ....D	.17	: .20	Technical, see Dyers Sundries					
SULFURIC, 66° 180D chy.			ALCOHOL, USP 190 pf. 50 gal.					
le/l wks. ....100D	1.50	: 1.75	bbls. ....gal	4.74	: 4.82			
Chy. c/l wks. ....100D	1.25	: 1.50	Second Hands, bbls, USP 190					
1500D Drums, le/l			pf. ....gal	...	: ...			
wks. ....100D	...	: 1.25	Export, USP, 190 pf. ....gal	.45	: .83			
Drums, c/l wks. ....100D	...	: 1.10	Cologne Spirit, 50 gal. bbls.gal	4.77	: 4.87			
Tank cars, wks. ....net ton	15.00	: 17.00	WOOD, see Methanol					
60° 1500D Drums,			Alcohols, also in 50 gal.					
le/l wks.100D	.70	: .90	drums, extra and returnable.					
Drums, c/l wks.100D	.60	: .80	Amyl, see Oil Fusel					

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Chemicals

Alcin, USP 100 lb cases.....D	.87	: .99
Alpha-Naphthol, crude 300 lb bbls. D	...	: .65
Refined, 300 lb bbls.....D	...	: .75
Alpha-Naphthylamine, 350 lb bbls. D	.37	: .39
Ton lots, bbls, wks.....D	.35	: .37
ALUM, Ammonia, lump 400 lb bbls.		
wks, .....100 lb	3.50	: 3.65
Imp., 500 lb casks.....100 lb	3.50	: 4.00
Ground, 400 lb bbls. wks.100 lb	3.65	: 3.75
Powd., 380 lb bbls. wks.100 lb	3.90	: 4.00
Chrome, 500 lb cks wks.100 lb	5.50	: 6.00
Potash, lump 400 lb bbls.		
wks, .....100 lb	...	: 4.50
Bbls. c/l wks.....100 lb	...	: 4.25
Cont. bbls c/l wks.100 lb	...	: 4.35
Imp. 650 lb cases s.p.100 lb	3.00	: 3.25
Ground, 400 lb bbls. wks.100 lb	4.35	: 4.60
Imp. 650 lb cases.....100 lb	3.00	: 3.25
Powd., 380 lb bbls. wks.100 lb	4.50	: 4.75
Chrome, 700 lb cks wks.100 lb	5.50	: 6.00
Soda, grd. 400 lb bbls. wks.100 lb	...	: 4.00
Bbls. c/l wks.....100 lb	...	: 3.50
Aluminum, metal, c/l NY.....100 lb	25.00	: 26.00
Chloride, anhyd. 275 lb drs. D	.20	: .22
30% sol. 120 lb chys.....D	.03 1/4	: .04
Hydrate, 95% light 90 lb bbls. D	.18 1/4	: .20
SULFATE, Iron-free bags c/l		
wks, .....100 lb	2.25	: 2.50
Imported, spot .....100 lb	2.25	: 2.40
Comm'l., 3/4% iron, bags c/l		
wks, .....East 100 lb	1.40	: 1.55

ALUMINUM SULFATE—(Continued)

Cont. bags c/l wks. E.100 lb	...	: 1.40
Bags, c/l wks. W.100 lb	...	: 1.35
Bbls., c/l wks. East.100 lb	...	: 1.55
Bulk, c/l cont. wks. E.100 lb	...	: ...
Amidol, (see Diaminophenol)		
Amidopyrine, 10 lb boxes.....D	4.75	: 5.00
1 lb cartons, 10 lb .....D	...	: ...
Aminoazobenzene, 110 lb kgs.....D	...	: 1.15
AMMONIA anhyd. 100 lb cyl. D	...	: .30
Water, 26° 800 lb drs. wks. D	...	: .07 1/4
Drs. c/l wks.....D	.07	: .07 1/4
Imp., 800 lb drs incl spot. D	.06%	: .07
26° 100 lb chys, lc/l wks. D	...	: .08 1/4
Chys., c/l wks.....D	...	: .08 1/4
20°, 800 lb drs. lc/l wks. D	...	: .06
Chys., lc/l wks.....D	...	: .07 1/4
18°, 800 lb drs. lc/l wks. D	...	: .05 1/4
Chys., lc/l wks.....D	...	: .07 1/4
16°, 800 lb drs. lc/l wks. D	...	: .04
Chys., lc/l wks.....D	...	: .05
Ammonium Acetate, 100 lb kgs. D	.35	: .36
Benzoate, USP 1 lb bot.....D	.85	: .90
Bisulfate, 300 lb bbls.....D	.22	: .23
100 lb kgs .....D	.23	: .24
Bromide, 50 lb boxes.....D	...	: .33
Imported, 112 lb boxes.....D	.17	: .19
Carb., tech. 560 lb casks.....D	...	: .09 1/4
Powd., tech. 385 lb bbls. D	...	: .09
USP, lump, 100 lb kgs.....D	...	: .09 1/4
Powd., 100 lb kgs.....D	...	: .09
Chloride, Domestic		
White gran. 250 lb bbls. NY. D	...	: .08
Bbls., c/l wks.....D	...	: .07 1/4
Gray 250 lb bbls, wks.....D	.05%	: .08%
Bbls, c/l wks.....D	.08	: .08 1/4

AMMONIUM CHLORIDE—(Continued)

Imp. wh. 600 lb cases spot. D	.05%	: .06%
Gray, 600 lb casks spot. D	.07	: .08
Lump, 600 lb casks spot. D	.13	: .14
Ichthyolate, as to brand.....D	.75	: 4.00
Iodide, USP 25 lb jars.....D	...	: 5.20
Lactate, 500 lb bbls.....D	.15	: .16
Nitrate, tech. crys. 225 lb bbls. D	...	: ...
Refined Crystals, bbls.....D	.18	: .20
CP gran. 100 lb kgs.....D	.35	: .37
Oxalate, pure, 100 lb kgs.....D	.50	: .57
Persulfate, 112 lb cases.....D	.55	: .60
Phosphate, dibasic 200 lb bbls. D	.54	: .60
Tech., powd. 325 lb bbls.....D	.15	: .17
Salicylate, USP 100 lb kgs.....D	...	: .35
Sulfate, bulk c/l wks.....100 lb	...	: 3.20
200 lb single bags c/l wks.100 lb	...	: 3.30
200 lb double bags, f.a.s.100 lb	...	: 3.65
Sulfocyanide, tech. 100 lb kgs. D	...	: .50
CP, 25 lb jars.....D	.60	: .65
Amyl Acetate, tech. 50 gal. drs. gal	4.50	: 4.75
Pure, 5 gal. cans.....gal	7.00	: 8.00
Alcohol, see Fuel Oil		
Butyrate, 1 lb bot.....D	2.00	: 2.10
Formate, 1 lb bot.....D	3.00	: 3.25
Salicylate, 100 lb chys.....D	1.45	: 1.60
Anethol, 2 lb bot.....D	1.60	: 2.00
ANILINE OIL, 900 lb drs.....D	.16	: .17
Aniline Salt, 200 lb bbls.....D	.24	: .25
Anisic Aldehyde, 1 lb bot.....D	3.75	: 4.50
Anthracene, 40-45% 600 lb casks		
wks, .....D	.12	: .17
80-85%, 600 lb casks wks.....D	.75	: 1.00
Anthraquinone, subl 125 lb bbls. D	1.30	: 1.35
30% paste 350 lb bbls.....D	.80	: .85
Antimony metal, slabs ton lots 100 lb	6.87	: 7.00
Needle Powd., 100 lb cases.....D	.06%	: .06%

The Name Associated With

Roche

Fine Chemicals and Alkaloids of Rare Quality

Aconitine and Salts
Amidopyrine
Antipyrine
Apomorphine Hydrochloride
Arecoline Hydrobromide
Atropine and Salts
Berberine and Salts
Brucine and Salts
Caffeine and Salts
Cocaine and Salts
Codeine and Salts
Colchicine Alkaloid, U. S. P.
Colchicine Salicylate
Creosote, U. S. P.
Creosote Carbonate

Cumarin
Diacetylmorphine
Alkaloid and Hydrochloride
Digitalin Pure
Duboisine Sulphate
Emetine and Salts
Eserine and Salts
Guaiacol Liquid
Guaiacol Carbonate
Homatropine and Salts
Hydrastine and Salts
Hydrastinine Hydrochloride
Hyoscine Hydrobromide
Hyoscyamine and Salts
Morphine and Salts
Phenolphthalein

Pilocarpine and Salts
Potassium Guaiacol
Sulphonate "Alta" Brand
Salicin
Saponin Purified
Scarlet Red Medicinal
Genuine "Biebrich"
Silver Proteinate
Sodium Cacodylate
Sparteine Sulphate
Strophanthin
Strychnine and Salts
Theobromine and Salts
Veratrine and Salts
Yohimbin Hydrochloride

THE HOFFMANN-LA ROCHE CHEMICAL WORKS NEW YORK

Chemicals

ANTIMONY CHLORIDE, anhyd 1000 lb			Bay Rum, Porto Rican, genuine			Beta-Naphthylamine, tech. 200 lb.		
dra.	lb	.35	Denat. salicy acid or tartar emetic			ous.	lb	.76
50 lb crocks	lb	.45	45 gal. bbls.	gal	3.00 : 3.05	Sublimed, 200 lb bbls.	lb	1.35
Sol'n. 150 lb carbons	lb	.12	Denat. quinine sulf. 45 gal.			Bichloride Mercury, see Mercury Bichloride		
Oxide, 500 lb bbls.	lb	.07	bbls.	gal	3.40 : 3.50	BISMUTH metal, 150 lb cases.	lb	2.95 : 3.05
Salt, dom. 500 lb bbls.	lb	.24	Domestic synthetic, 50 gal.			Second Hands	lb	2.80 : 2.85
Imp., NY	lb	.23	bbls.	gal	1.25 : 1.35	Ammon. Citrate, USP 5 lb bxs.	lb	5.75
Sulfuret, golden 500 lb bbls.	lb	.21	Benzaldehyde, tech. 945 lb dra.			Betanaphtholate, 5 lb bxs.	lb	3.35
336 lb kegs	lb	.19	wks.	lb	.75 : .80	Citrate, USP 5 lb bxs.	lb	3.15
Crimson, 500 lb bbls.	lb	.38	USP, 40 lb chys.	lb	1.50 : 1.60	Nitrate, 25 lb jars.	lb	2.00
336 lb kegs	lb	.36	FFC, 40 lb chys.	lb	1.75 : 1.85	Oxychloride, 250 bbls.	lb	3.50
Red, 500 lb bbls.	lb	.45	BENZENE, 90% 8000 gal. tanks			Phenolsulfonate, 5 lb cans.	lb	3.20
336 lb kegs	lb	.42	wks.	gal	.25 : .27	Salicylate, 250 bbls.	lb	2.00
Tartrolactate, 500 lb bbls.	lb	.45	110 gal. dra. wks.	gal	.30 : .32	Subcarbonate, USP, 250 bbls.	lb	3.40
Antipyrine, USP, 100 lb cases.	lb	2.70 : 3.25	Pure, Tanks, wks.	gal	.27 : .32	X-Ray diag. 1 lb bot.	lb	3.80
Apomorphine Hydrochloride, 1/4 oz. vials.	oz	19.65	110 gal. dra. wks.	gal	.33 : .35	Subgallate, USP 175 lb bbls.	lb	2.80
Areceline Hydrobromide, 1 oz. vial.	oz	9.00 : 10.50	Benzidine Base, dry 250 lb bbls.	lb	.82	Subiodide, 5 lb lots.	lb	4.70
Argols, red. powd. 350 lb bbls.	lb	.06 1/2 : .07	10 bbl. lots	lb	.80 : .82	Subnitrate, USP, 250 lb bbls.	lb	2.90
Arsenic, metal 220 lb kegs.	lb	.35	Benzidine Sulfate, paste 350 lb			Second Hands, bbls. or less.	lb	2.70 : 2.75
Red, 224 lb kegs cases.	lb	.15 : .15 1/2	bbls.	lb	.70 : .72	Cones, 1 lb bot.	lb	3.95
White, 550 lb bbls, c/l NY.	lb	.10 : .11	Benzol, see Benzene			Subsalicylate, USP, 175 bbls.	lb	3.10
Aspirin, see Acid Acetylsalicylic			Benzonaphthol, 5 lb boxes.	lb	2.00 : 2.10	Tannate, 1 lb bot.	lb	2.73
Atropine Alk. USP 1 oz. vial.	oz	9.50	Benzoyl Chloride, 500 lb dra.	lb	1.00	above on basis 25 lb lots.		
Sulfate, 5 oz. cans.	oz	4.00	Benzyl Acetate, 100 lb chys.	lb	1.40 : 1.50	Smaller lots at an advance.		
Single ounce	oz	4.17	Alcohol, 5 lb bot.	lb	1.60 : 1.70	Blanc Fixe, dry 400 lb bbls. wks.	ton	80.00 : 85.00
BARIUM BINOXIDE, see Barium dioxide			Benzoate, 5 lb bot.	lb	1.50 : 1.60	Imported, bbls.	ton	70.00 : 72.00
Carbonate, precip., 800 lb bbls.			Medicinal FFC	lb	1.75 : 1.85	Paste, 650 lb bbls.	ton	50.00 : 55.00
wks.	ton	70.00	Chloride, 95% tech. 925 lb dra.	lb	.30 : .35	BLEACHING POWDER, 700 lb dra.		
Imports, bbls. spot.	ton	70.00	100 lb chys.	lb	.40 : .45	c/l wks.	100 lb	1.75 : 1.90
Precip., 200 lb bgs, wks.	ton	68.00	Redistil. 100 lb chys.	lb	3.00 : 3.25	Drums 1c/l ex-warehouse.	100 lb	2.25 : 2.50
Chloride, 800 lb bbls. wks.	ton	90.00	Formate, 1 lb bot.	lb	22.00	Contract, c/l wks.	100 lb	1.75 : 1.96
Red, 224 lb kegs cases.	ton	88.00	Berberine Hydrochloride, 1 lb bot.	lb	22.00	F. a. a. c/l.	100 lb	...
200 lb bgs. wks.	ton	88.00	Sulfate, acid or neut. 1 lb bot.	lb	22.00	Imported, spot	100 lb	...
Import, bbls. spot.	ton	80.00	BETA-NAPHTHOL, 350 lb bbls. wks.	lb	.23	Blue Ointment, see Mercury		
Dioxide, 88% 690 lb dra.	lb	.17 : .18	Ton lots, wks.	lb	.20 : .22	Mass, see Mercury		
Import, 85-85% 400 lb dra.	lb	.14 : .16	Sublimed	lb	.55 : .60	Bone Ash, 100 lb kegs.	lb	.08
Hydrate, 500 lb bbls.	lb	.05 1/2 : .06				Black, 200 lb bbls.	lb	.06 : .08
Iodide, 5 lb box.	lb	5.15						
Nitrate, 700 lb casks.	lb	.10						
Import, casks	lb	.07 1/2 : .08						
Sulfocyanide 400 lb bbls.	lb	.35						
Sarytes, floated 350 lb bbls.	ton	33.50 : 35.00						



Soda Ash

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Bicarbonate of Soda

Manufactured by

MICHIGAN ALKALI COMPANY

Sole Selling Agents

EDWARD HILL'S SON & CO.

21 EAST 40TH STREET, NEW YORK

Chemicals

Borax, USP, cryst. 400 lb bbls..lb	.05½	.05½
Powdered, U.S.P. 300 lb bbls..lb	.05½	.05½
Kegs, USP, 100-150 lb.....lb	.05½	.05
Bordeaux Mixture, powd. bbls..lb	.12	.15
Paste, bbls.....lb	.08	.10
Borneol, 1 lb bot.....lb	...	3.50
Bromide, see potass. bromide, etc.		
Bromine, bot. in 60 lb cs. wks..lb	...	.29
Bromobenzene, 600 lb drums.....lb	.40	.43
Bromoform, USP 5 lb bot 50 lb cs. lb	...	1.50
Bromistrol, 25 lb kegs.....lb	4.00	4.25
Brucine Sulfate, 100 ozs.....oz	...	.20
Butter of Antimony, see Antimony Chloride		
CADMIUM, metal 100 lb bxs.....lb	1.15	1.25
Bromide, 50 lb cases jars.....lb	...	1.10
Iodide, 10 lb bot.....lb	...	4.45
Sulfide, cs.....lb	1.50	1.60
CAFFEINE ALK. USP 5 lb cans..lb	3.75	4.25
Second Hands.....lb	3.65	3.75
Hydrochloride, 1 lb bot.....lb	7.12	7.32
Sulfate, 1 lb bot.....lb	...	5.50
Chlorate, 25 lb cans.....lb	3.00	3.25
Hydrobromide, 1 lb bot.....lb	...	4.75
CALCIUM Acetate, 150 lb bgs, c/l wks.....lb	...	4.00
Arsenate, 100 lb bbls. c/l wks. lb	.17	.19
Bbls. 1c/l wks.....lb	.18	.21
Bromide, 100 lb cs.....lb	...	.45
Calcium Carbide, 220 lb dr c/wks lb	...	.04½
Drums 1c/l wks.....lb	...	.05
Carbonate, tech. 100 lb bags c/l.....lb	1.00	1.10
USP, precip. 175 lb bbls..lb	...	.04
Chloride, solid, 650 lb drs. c/l f.o.b. NY.....ton	...	24.50
Gran. 350 lb drs. c/l f.o.b. NY.....ton	...	30.50

CALCIUM CHLORIDE—(Continued)

Flake 330 lb drs. c/l drs. f.o.b. NY.....ton	...	30.50
Anhyd., 350 lb drs. f.o.b. NY lb	.13	.20
Glycerophosphate, 250 lb bbls..lb	1.55	1.60
Hydrate, (see Lime)		
Iodide, 5 lb bot.....lb	...	4.35
Lactate, tech. 500 lb bbls.....lb	...	.13½
Nitrate, 220 lb bbls, c/l NY ton	...	40.00
Phosphate, tech. 350 lb bbls. lb	.09	.10
Phosphate, precip. tribasic 200 lb bbls, wks.....lb	.12	.13
Phosphate, mono.....lb	.07	.09
Sulfocarbonate, 100 lb kegs.....lb	.60	.62
Calomel, see Mercury		
CAMPOR, Amer. ref. 250 lb bbls.....lb	...	.96
2½ lb slabs, 100 lb cs.....lb	...	.87
1 lb cakes, 100 lb cs.....lb	...	.97½
1 oz. tab., 1 lb ctms.....lb	...	1.01½
100 lb cs.....lb	...	1.02
Jap. ref. 2½ lb slabs, 100 lb cs.....lb	.87	.89
1 oz. tab., 100 lb cs. 1 lb time.....lb	...	1.00
½ oz. tab. 100 lb cs. 1 lb time.....lb	...	1.02
Chinese ref. 2½ lb slabs 100 lb cs.....lb	...	.90
Crude, 100 lb cs.....lb	.72	.73
Campor, Monobrom. 100 lb cs. lb	1.75	1.85
Caramel, 50 gal. bbls.....gal	.60	.62
Carbazol, 250 lb bbls.....lb	.75	.80
Carbon Bisulfide, 500 lb dr., c/l NY lb	...	.06½
c/l drums, NY.....lb	...	.06
Carbon Black, 12½ lb bags, wks. lb	.18	.35

Carbon Tetrachloride, 1400 lb drs. NY.....lb	...	.10½
Drums, c/l NY.....lb	.09	.09½
700 lb drs. single NY.....lb	...	.10½
Carmine, No. 40 5 lb boxes.....lb	4.50	4.60
Casein, edib. 100 lb keg.....lb	.45	.50
Technical, 200 lb bbls.....lb	.14	.16
Castoreum, 1 lb boxes.....lb	4.00	4.50
Castor Oil, USP 50 gal. bbl.....lb	...	.15
Cases, 80 lb 2 tins.....lb	...	.16
Tech., see Fixed Oils		
Caustic Potash, see potash, caustic Soda, see soda, caustic		
Celulose Acetate, 100 lb cases..lb	1.75	2.00
Cerium Oxalate, USP 100 lb kgs. lb	.48	.53
Chalk, drop 175 lb bbls.....lb	...	.03½
Precip. light 250 lb csks.....lb	.04½	.04½
Precip. heavy 650 lb csks.....lb	.03½	.04
Bulk.....ton	5.00	8.00
Precip. English, 7 lb bags.....lb	...	.07½
Charcoal, Bone, see bone black		
Wood, powd. 100 lb bbl.....lb	.04	.05
Willow, powd. 100 lb bbl.....lb	.06	.07
China Clay, imp.....ton	18.00	22.50
Domestic, fob Mine.....ton	10.00	15.00
Chloral Hydrate, USP 100 lb drs. lb	.75	.80
25 lb jars.....lb	.76	.81
Chloroform, 170 lb cases.....lb	.65	.75
Chloramine-T, 5 lb bot.....lb	1.25	2.50
Chloroacetic, 5 lb bot.....lb	.55	.75
Chlorhydrin, Ethylene anhyd, 600 lb drs.....lb	.75	.85
40% soln. 100 lb clys.....lb	.25	.30
CHLORINE, Liquid 2000 lb cyl. c/l wks.....lb	.05½	.05½
Tank car lots wks.....lb	.05½	.05½
100 lb cyl. c/l.....lb	...	.06
100 lb cyl. 1c/l wks.....lb	.06½	.07
100 lb cyl. 1c/l, ex-warehouse.....lb	...	.09
Chlorobenzene, mono. 1000 lb drs. wks.....lb	.11	.12
Drs. c/l wks.....lb	.10	.11
Tank car lots wks.....lb	...	.09
CHLORFORM, USP 50 lb drs..lb35
Second Hands, 650 lb drs..lb	.31	.33
Technical, 650 lb drums.....lb	.31	.33

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Acid Phosphoric 50%
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EBG

Chemicals

Chromium Acetate, 20° soln. 400 lb bbls.08	: .10	COD LIVER OIL, Norwegian, 30 gal bbls.	25.00	: 25.50	Cyanamide, bulk c/1 wks. amm. unit ...	: 3.25
Fluoride, Ford. 400 lb bbls.		: .30	Newfoundland, 30 gal bbls. bbl ...		: ...	DIAMINOPHENOL, 100 lb kegs.	: 3.80
Soln. 400 lb bbls. ....	.07	: .08	Colchicine alk., USP 1 oz. vial.		: 30.00	Dianisidine, 100 lb kegs.	: 4.60
Sulfate, 400 lb bbls.		: 3.00	Salicylate, 1 oz. vial.		: 45.00	Dichlorobenzene, 1000 lb drs.	: .06
Chrysarobin, USP 5 lb cans.	2.00	: 2.00	Colloidon, USP 30 lb drums. ....	.22	: .23	Diethylamine, 850 lb drs.	: .60
Cinchonidin alk., pvd. 100 oz. tins. ....	.70	: .70	Flexible, USP 30 lb drums. ....	.27	: .28	Diethyl Phthalate, 25 lb cans.	: .55
Crystal ..... ..	.75	: .75	COPPER, metal electrolytic c/1 NY	14.62	: 14.75	Diethyl Sulfate tech. 50 gal. drs.	: .20
Sulfate, 100 oz. tins. ....	.49 1/2	: .50	Lake, c/1 NY	14.87	: 15.00	CP drums	: .40
Cinchonidin alk., pvd. 100 oz. tins. ....	.70	: .70	Casting, c/1 NY	14.25	: 14.37	Digitalin, Pure, 1 oz. vial.	: 7.75
Crystal ..... ..	.48	: .48	Carbonate, 400 lb bbls. ....	.18	: .18 1/2	Dimethylamine, 840 lb drs.	: .42
Sulfate, 100 oz. tins. ....	.35	: .35	Chloride, 250 lb bbl.		: .30	Dimethylsulfate, 100 lb drs.	: .50
Cinnamic Alcohol, see Alcohol Cinnamic			Cyanide, 100 lb drs. ....	.58	: .60	Dinitrobenzene, 400 lb bbls.	: .19 1/2
Cinnamic Aldehyde, 1 lb bot.	3.20	: 3.50	Iodide, 5 lb bot.		: 5.65	Dinitrochlorobenzene, 400 lb bbls.	: .19 1/2
Citral, 25 lb cans.	2.75	: 3.00	Oxide, 1000 lb bbls. ton lots. ....	.18	: .18 1/2	Dinitronaphthalene, 350 lb bbls.	: .32
Citrine Ointment, see Mercury			Sub-Acetate, verd. 440 lb bbls. ....	.23	: .23	Dinitrophenol, 350 lb bbls.	: .40
Citronellal, 1 lb bot.	2.00	: 2.25	SULFATE, cryl. 450 lb bbls. 1c/1 spot		: 5.50	Dinitrotoluene, 300 lb bbls.	: .19
Citronellol, 1 lb bot.	8.00	: 14.00	Carlots, bbls. f.o.b. NY. 100 lb	5.20	: 5.25	Dionin, see Morphine, Ethyl	
Cobalt metal, 100 lb kegs.	2.75	: 2.85	Carlots, bbls., delivered. 100 lb		: 5.50	Diphenylamine, 250 lb bbls.	: .48
Cobalt Oxide, 500 lb bbls.		: 2.10	Imp. 550 lb cans.	4.50	: 4.75	Diphenylguanidine, 170 lb bbls.	: 1.15
10 lb tins 200 lb cans.		: 2.35	Powdered, 350 lb 5 bbls. ....	.06	: .06 1/2	Diphenylpicolide, 500 lb drums.	: .85
COCAINE alk., USP, 1 oz. vial.		: 11.00	Coppers, bulk c/1 wks.	20.00	: 21.00	Dover's Powder, USP 5 lb tins.	: 2.20
Hydrochloride, USP-1 oz. vials, 25 ozs.		: 7.07	400 lb bbls. c/1 wks.		: 25.00	Duboisine Sulfate, 1 oz. vial.	: 60.00
In 1/4 oz. vials.		: 7.50	200 lb bbls. c/1 wks.		: 23.00	EARTH, Diatomaceous, see Kieselguhr	
In crystals, granular, powder, or flaky crystals as desired.			Powdered, bbls.	1.90	: 2.00	Emetine, alk., 15 gr. vials.	: 1.65
Cocoa Butter, bulk, 200 lb halves. ....	.28	: .29	Sugar, 400 lb bbls.		: 1.75	Hydchlde, USP 1 oz. vial.	: 19.00
Fingers, cakes, etc. 12 lb bxs. ....	.34	: .37	Corn Syrup, 42 deg. 50 gal.		: 3.51	15 gr. vials.	: .80
CODEIN alk., 1 oz. vial. 10 oz. lots		: 8.62	43 deg. 50 gal. bbls.		: 3.56	EPSOM SALT, tech. 300 lb bbls. NY	: 2.15
Hydrobromide, 1 oz. vial, 10 oz. lots		: 6.92	Corrosive Sublimate, see Mercury Bichloride			Bbls. c/1 NY	: 2.00
Hydrochloride, 1 oz. vial, 10 oz. lots		: 7.77	Cotton Soluble, 100 lb bbls. wet. ....	.40	: .42	100 lb bbls., c/1 NY.	: 1.80
Nitrate, 1 oz. vial, 10 oz. lots.		: 7.77	Coumarin, 25 lb tins.	4.50	: 4.75	Imp., 220 lb bbls. c/1 NY	: 1.00
Phosphate, 1 oz. vial, 10 oz. lots		: 6.47	Second Hands		: 4.35	USP, 300 lb bbls, 10 bbls. 100 lb	: 2.50
Salicylate, 1 oz. vial, 10 oz. lots		: 6.47	CREAM TARTAR, USP, 300 lb bbls.		: .28 1/2	Carlots, bbls.	: 2.25
Sulfate, 1 oz. vial, 10 oz. lots.		: 6.92	Imp. powd. USP, 224 bbls. ....	.25 1/2	: .25 1/2	Imported, 400 lb bbls. 100 lb	: 1.75
Small Stems, 1/4 oz. vials, 50c extra, 1/4 oz. 25c extra, singles 7c extra per oz.—25 oz. lots, 10c on cheaper than above. Less than 10 ozs. 15c on higher than above.			Cresote, USP, 42 lb chys. ....	.40	: .55	100 lb kegs	: 1.85
			Carbonate, 1 lb bot. 25 lb	1.80	: 2.00	Ergotin, Bonjean, 1 lb jars.	: 8.50
			Cresote Oil, 50 gal. drs. ....	.20	: .22	Eserine alk., 1 oz. vial.	: 30.00
			Cresol, USP, 400 lb bbls.25	: .27	Salicylate, USP 1 oz. vial.	: 22.00
						Sulfate, USP VIII, 1 oz. vial.	: 17.00

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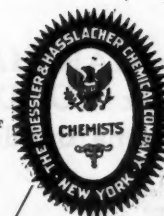
ETHER, USP 55 lb drums.....lb	.13	: .15	Fluorspar, 95% 220 lb bgs. ex			GLYCERIN, C. P. 550 lb drums. lb	.16	: .16 1/2
Anaesthesia, 55 lb drums.....lb		: .16	dock.....ton	25.00		Cans, 50 lb.....lb	.17 1/2	: .19
USP, 1880 55 lb drums.....lb		: .38	96% bgs.....ton	33.50		Dynamite, 1000 lb drs.....lb	.15	: .15 1/2
Washed, 55 lb drums.....lb		: .30	98% bgs.....ton	35.00		Saponification, tanks.....lb	.11	: .11 1/2
Motor, 1 lb cans.....lb	.28	: .27	FORMALDEHYDE, USP 400 lb bbls.			Soap, Lye, tanks.....lb	.09 1/2	: .10
Ether, Nitrous, 1 lb bot.....lb	.92	: .95	c/l wks.....lb	.14 1/2		Goa Powder, see chrysarobin		
Ethyl Benzyl Aniline, 300 lb drs. lb		: 1.30	Carboys, 100 lb lc/l wks.....lb	.15 1/2		Graphite, crude 220 lb bags.....ton	15.00	: 35.00
Ethyl Acetate, 99%, 50 gal. drs. gal	1.05	: 1.15	Bbls. 400 lb lc/l wks.....lb	.16		Flake, 500 lb bbls.....lb	.05	: .05
85-90% Ester, 50 gal. drs. gal		: .95	Second Hands.....lb	.14	: .14 1/2	Ground, lump, bbls.....lb	.04	: .05
Carlots, drums.....gal		: .92	Fuller's Earth, 200 lb bgs. c/l			Guaiacol Liquid, USP 25 lb cans. lb	2.50	: 2.60
Tank Cars.....gal		: .90	mines.....ton	15.00	: 17.00	Benzoate, 1 lb bot.....lb		: 18.00
Pure, 5 lb bot.....gal		: 3.50	Imported, 230 lb bags NY.....ton	35.00	: 40.00	Carbonate, 5 lb boxes.....lb	5.00	: 5.25
Benzoate, 5 lb bot.....lb	1.85	: 2.00	Fusel Oil, refined, 100 gal drm. gal			HAARLEM OIL, Dom. 6 gr. cs. gross		: 3.50
Bromide 115 lb drs.....lb		: .40	Crude, 100 gal drum.....gal			Imported, 5 gr. cases.....gross	5.20	: 5.25
Butyrate, 5 lb bot.....lb	2.00	: 2.25	G. SALT, paste 350 lb bbls. basis			Halazone, 5 lb bot.....lb	2.75	: 3.25
Chloride, 15 lb cpl.....lb		: .35	100%.....lb	.60	: .65	Heliotropin, 10 lb bot.....lb	2.00	: 2.75
Cinnamate, 1 lb bot.....lb	3.75	: 4.00	Gelatin, USP silver bbl. 100 lb cs. lb	.85	: .90	Hexamethylenetetramine, USP		
Formate, 5 lb bot.....lb	2.00	: 2.10	Gold Label, 100 lb cases.....lb			100 lb drums.....lb	.93	: .95
Methyl Ketone, 50 gal. drums. lb	.25	: .25 1/2	Technical, 100 lb cs.....lb	.60	: .65	Imported.....lb	.74	: .80
Morphine, see Morphine, Ethyl			Geraniol, 50 lb cans.....lb	3.00	: 4.50	Rubber Makers, Impalp. Pd.		
Valerate, 5 lb bot.....lb	4.50	: 4.75	Geranyl Acetate, 1 lb bot.....lb	4.25	: 4.75	drs.....lb		: .95
Ethylene Bromide, 600 lb drs.....lb		: .80	GLAUBER'S SALT, tech. 200 lb bags			Homatropine Hydrobrom. USP 1 oz.		
Glycol.....lb	.85	: 1.00	c/l wks.....100 lb	1.20	: 1.30	vial.....oz		: 16.00
Chlorhydrin, anhyd. 50 gal. drs. lb	.75	: .85	350 lb bbls. c/l wks.....100 lb	1.35	: 1.45	Five oz., 1 oz. vials.....oz		: 15.00
40% Solution, 50 gal. bbls. lb	.25	: .30	Bbls c/l wks.....100 lb	1.50	: 2.00	Hydrastine Alk., USP, 1 oz. vial. oz		: 20.00
Dichloride, 50 gal. drs.....lb	.20	: .25	Imported, bbls. spot.....100 lb	.85	: 1.00	Hydchlide, USP, 1 oz: vial.....oz		: 20.00
Eucalyptol, 25 lb cans.....lb	.75	: .80	USP, 300 lb bbls. Imp. sp. 100 lb		: 1.25	Sulfate, 1 oz. vial.....oz		: 22.00
Eugenol, 25 lb cans.....lb	2.85	: 3.35	USP, 300 lb bbls. dom. sp. 100 lb		: 1.75	Hydrastine Hydchlide, USP 16 gr.		
Feldspar, bulk.....ton	20.00	: 25.00	USP, 300 lb bbls. c/l wks. 100 lb		: 1.40	vials.....vial		: 2.40
FERRIC CHLORIDE, tech. crys.			Glucose, (Grape Sugar) dry, 100			Hydrobenzene, 100 lb kegs.....lb	1.30	: 1.35
475 lb bbls.....lb		: .08	70° bags, c/l NY.....100 lb	3.11	: 3.46	HYDROGEN PEROXIDE, 25 vol. 400 lb		
Imported.....lb		: .07	Syrup, Drs. & bbls, c/l NY 100 lb		: 3.41	bbls.....lb		: .10
USP, crys. 100 lb kegs.....lb		: .09	lc/l NY.....100 lb		: 3.70	USP Soln. 375 lb bbls.....lb	.05	: .05 1/2
Imported.....lb		: .08	GLUE, pure white, bbls.....lb	.30	: .35	USP bot. 4 oz. cases.....gross	8.00	: 8.25
Tech. Sol'n 40° 140 lb clys. lb		: .06	Medium white, bbls.....lb	.25	: .30	Bot. 8 oz. cases.....gross	11.75	: 12.00
48° 140 clys.....lb		: .08	French, bbls.....lb	.18	: .25	Bot. 16 oz. cases.....gross	19.75	: 20.00
USP Sol'n 125 lb clys.....lb		: .06 1/2	High Grade, bbls.....lb	.35	: .40	Hydroquinone, 100 lb kegs.....lb	1.25	: 1.35
Ferrous Chloride, crys. tech.			Bone, regular, bbls.....lb	.10	: .12	Hyoscine Hydrobrom. USP 1 oz.		
475 lb bbls.....lb	.06	: .06 1/2	Fish, bbls.....gal	1.50	: 1.75	vial.....oz		: 21.00
Ferrous Sulfide, 1000 lb bbls. 100 lb	2.50	: 3.00				Five oz., 1 oz. vials.....oz		: 20.50
Flake White, see lead, white								

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Yellow Prussiate
of Potash
and Soda

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CHEMICAL CO.

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Chemicals

Hyoecamine Alk. Cryst., 1 oz. vial.oz	...	35.00	
Alkaloid, Amorphous, 1 oz. vial.oz	...	75.00	
Hydrobromide, USP 1 oz. vial.oz	...	60.00	
Sulfate, 1 oz. vial.oz	...	35.00	
INDOL, C. P. 1 oz. bot.	...	8.50	9.00
Iodides, see Potass. Iodide, etc.			
IODINE, crude, 200 lb kgs.	...	3.90	3.95
Resublimed, 10 lb jars.	...	4.55	
Tincture, USP, 50 gal. bbls.	gal	4.50	4.60
Carboys	gal	4.75	4.85
Iodoform, powd., 10 lb bot.	...	6.00	
Crystals, 10 lb bot.	...	7.00	
Ionone, (violet) 1 lb bot.	...	5.00	9.00
Iridium, metal 100s lots.	...	250.00	
Iron, metal by hydrogen 1 lb bot.	...	.65	.70
IRON & AMM. CITRATE, USP 25 lb cans	...		.84
Green scales, 25 lb cans.	...		.84
Carodylate, 10 lb bot.	...	9.00	9.35
Citrate, USP VIII 25 lb cans.	...		.99
Chloride, see ferric or ferrous			
Hypophosphite, 5 lb cans.	...	1.50	1.60
Syrup, USP VIII.	...		.30
Iodide, 1 lb bot.	...		4.30
Syrup, USP 5 lb bot.	...	.35	.36
Nitrate, kgs.	...	.09	.10
Com'l, bbls., 100 lb	...	2.75	3.35
Oxalate, scales 25 lb cans.	...	.80	.83
& Ammon. Oxalate, 25 lb bxs.	...	.45	.50
& Potassium Oxalate, 25 lb bxs.	...	.47	.48
& Sodium Oxalate, 25 lb bxs.	...	.40	.43
Phosphate, USP 25 lb cans.	...		.89
Pyrophosphate, USP 25 lb cans	...	.90	.97
Iso-Eugenol, 1 lb bot.	...	4.25	5.00
JALAP RESIN, lump 5 lb tins.	...	3.25	3.35
Powd. tins.	...	3.40	3.50
KIESELGUHR, 90 lb bags NY...	ton	60.00	70.00
LANGLIN, see Adeps Lanæ			
LEAD, metal c/l NY.	100 lb	6.25	6.30
Acetate, white crystals 500 lb			
bbls. wks.	...	.14	
100 to 250 lb kgs. wks.	...	.14%	
White, broken, bbls. wks. 100 lb	...	13.40	
White, gran., bbls. wks. 100 lb	...	13.65	
White, powd., bbls. wks.	...	.14%	
Kgs. wks.	...	.15%	
Brown, broken, bbls. wks.	...	.20	
USP, 100 lb kgs.	...	.25	.26
Arsenate, 100 lb bbls. lc/l wks.	...	.21	.24
Bbls. c/l wks.	...	.12	.13
Paste, 600 lb bbls.	...	3.20	3.40
Iodide, USP VIII 5 lb bot.	...	.22	
Nitrate, 500 lb bbls. wks.	...	10.90	11.15
Oxide, lithge, 500 lb bbls. 100 lb	...	.14%	
100 lb kgs. wks.	...	11.40	11.65
Oxide, red 500 lb bbls. wks.	...	.14%	
100 lb kgs wks.	...	.26	
Peroxide, 100 lb drs.	...	.09%	.10
White, basic carb. 500 lb bbls.	...	.09%	.09%
Bbls. c/l wks.	...	.14%	
100 lb kgs wks.	...	.09%	.09%
White, sulfate 500 lb bbls. wks.	...	.25	.26
Bbls. c/l wks.	...	.11	.13
Licorice Ext. Mass, cases.	...	.38	.40
Compound powder, bbls.	...	.45	.50
Powdered	...		
Sticks, 1 oz. 100 lb cases.	...		
LIME (Salts, see Calcium Salts)			
Live, 325 lb bbls. ton lots, wks.	...	.01%	
Single bbl. wks.	...	.01%	
Hydrated, 167 lb bbl, ton lots,	...	.01%	
wks.	...	.03	
Single bbl, wks.	...	.03	
Oyster Shell, 150 lb bbl, single.	...	.08	
125 lb bag	...	.10%	
Sulfur, dry 200 lb drs. NY.	...	.15	.16
Soln. c/l NY.	...	7.00	7.25
33° Soln. 50 gal. bbls. NY.gal	...	7.00	10.00
Linalool, 5 lb bot.	...	13.00	14.00
Linalyl Acetate, 1 lb bot.	...		
Benzonate, 1 lb bot.	...		
Litharge, see lead oxide			
Lithium Carb. USP 100 lb kgs.	...	1.50	1.60
Bromide, 100 lb cs.	...	1.70	1.80
Citrate, USP 100 lb kgs.	...	1.60	1.70
Iodide, 5 lb bot.	...		5.40
Lithopone, 400 lb bbls. lc/l wks.	...	.07%	.08
Bbls. c/l wks.	...		.07
Imported, 400 lb bbls.	...	.06	.06%
Litmus Cubes	...	.90	1.00
MAGNESITE, crude	ton		15.00
Calcined, 500 lb bbls.	ton		55.00
Magnesium mtl., sticks 100 lb cs.	...	1.25	1.30
Carb. tech. 70 lb bags NY.	...	.08%	.08%
75 lb bbls. NY.	...	.08%	.09
USP, 60 lb bbls.	...	.10	.11
USP, blocks 100 lb cs. 1, 2, 4	...	.19	.23
Chloride, fused 575 lb drs. c/l	...		34.00
Flaked, 350 lb drs. wks.	ton		38.00
Imp., fused 900 lb bbls. NY.ton	...	26.00	28.00
Fluomilicate, crystals 400 lb bbls.	...		
wks.	...		.15
30% soln. 500 lb bbls. wks.	...	.07	.07%
Soln. bbls. c/l wks.	...		.08
Glycerophosphate, 5 lb tins.	...		2.35
Hypophosphite, 5 lb cans.	...		1.15
Oxide, USP light 100 lb bbls.	...		.45
USP, heavy 250 lb bbls.	...		.50
Peroxide, 5 lb cans.	...		2.15
Perborate, 1 lb tins.	...		2.25
Salicylate, 100 lb kgs.	...		.80
Sulfate, see Epsom Salts			
Manganese Chloride, 600 lb cs.	...		.16
NY	...	.09%	
Borate, 30%, 200 lb bbls.	...		.36
100 lb kgs	...		.37
Dioxide, 80-84% 900 lb bbls.	...		
NY	ton	80.00	85.00
85-90%, 900 lb bbls. NY.ton	...	85.00	90.00
Hydrated, precip. 100 lb kgs.32	.35

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Nickel Salts

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17/18% Iron Free

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White Crystals

POTASSIUM PERMANGANATE
U. S. P. Crystals

PYRIDINE
U. S. Gov. Specifications

SODIUM PRUSSIAE
Yellow Crystals

SODIUM SULPHIDE
60/62% Fused and Broken

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Chemicals

Manganese—(continued)

Glycerophosphate, 5 lb tins.....D	...	3.05
Hypophos. USP VIII 5 lb cans. D	...	1.65
Iodide, 1 lb bot.....D	...	6.40
Ore, bulk NY.....unit	.40	.45
Sulfate, 600 lb casks NY.....D	.10	.11
Marble Flour, bulk.....ton	10.00	12.00
See also Calcium Carbonate		

MENTHOL, USP, 60 lb cases.....D	9.75	10.00
Less cases, 5 lb tins.....D	10.00	10.25

MERCURY, metal 75 lb flask.....flask	66.00	66.50
Less Flasks, 5 lb jugs.....D	1.02	1.04
Bichloride, cryst. 25 lb bxs.....D	...	1.17
Gran. powd., 200 lb kegs.....D	...	1.02
Bisulfate, 25 lb boxes.....D	...	.86
Blue Mass, 25 lb boxes.....D	...	.62
Powdered, 25 lb boxes.....D	...	.64

Blue Ointment, USP 25 lb cans	...	.80
50%.....D	...	.62
USP, dilute 25 lb cans 30%.....D	...	.67
33 1/3% Mercury.....D	...	.67

Calomel, 50 lb bxs.....D	...	1.25
Citrine Ointment 25 lb jars.....D	...	.50
Iodide, green 25 lb jars.....D	...	4.00
Red, USP 25 lb jars.....D	...	4.10
Yellow, USP VIII 25 lb jars.....D	...	4.00
Red Precip. USP 25 lb bxs.....D	...	1.38
Powder, USP 25 lb bxs.....D	...	1.48
White Precip. USP 25 lb bxs.....D	...	1.49
Powder, USP 25 lb bxs.....D	...	1.54
With chalk, USP 25 lb bxs.....D62

Meta-Nitroaniline, 300 lb bbls.....D	.78	.80
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Meta-Nitro-para-Toluidine, 300 lb bbls.....D	.90	.95
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Meta-Phenylenediamine, 300 lb bbls.....D	.90	.95
--	-----	-----

Meta-Toluylenediamine, 300 lb bbls.....D	.90	.95
--	-----	-----

METHANOL (Wood Alcohol)

95%, 50 gal. drms. ext.....gal	1.12	1.18
97%, 50 gal. drms. ext.....gal	1.14	1.17
Pure, 50 gal. drms. ext.....gal	1.30	1.35
Acetone free, 50 gal. drms. ext.....gal	1.25	1.40
Bbls. incl. 5c higher		

Methyl Acetone, 100 gal drums.....gal	...	1.20
Tanks cars.....gal	...	1.15
Anthraniolate, 1 lb bot.....D	3.50	4.50
Chloride, 90 lb cyl.....D	...	.50
Cinnamate, 1 lb bot.....D	3.75	4.00
Paracresol, 1 lb bot.....D	8.00	9.00
Saileylate, USP, 50 lb cases.....D	...	.57
500 lb drums.....D	...	.55
Second Hands, cases.....D	.50	.52

Methylene Blue, tech. 100 lb kgs. D	1.00	1.50
USP, medicinal 5 lb cans.....D	2.25	2.60
Niebler's Ketone, 225 lb bbls.....D	...	3.75
Milk, powd. 150 lb bbls.....D	.14	.15

Milk Sugar, see sugar of milk

Mineral Oil, see oil mineral

Monochlorobenzene, see chlorobenzene

Monoethylaniline, 900 lb drs.....D ... | 1.00 |Monomethyl paramidophenol sulfate ... | 4.00 |100 lb drs.....D ... | 4.00 |

MORPHINE Sulfate, USP 5 oz. tins

10 oz.....oz ... | 6.35 |Acetate, 5 oz. tins 10 oz. lots.....oz ... | 6.35 |Hydrobromide, 5 oz. tins 10 oz. lots.....oz ... | 6.35 |Hydride, 5 oz. tins 10 oz. lots.....oz ... | 6.35 |Diacetyl Alk., 1/4 oz. vis. 10 oz.....oz ... | 10.20 |Hydride, 1/4 oz. vis. 10 oz. lots.....oz ... | 9.25 |Ethyl Hydride, 1/4 oz. vis. 10 oz. lots.....oz ... | 10.45 |Small Sizes: 1/4 oz. visals, 50c extra; | |1/4s 25c extra; single oz. vis., 7c extra, | |over price for 5 oz. tins. 25 oz. lots in 5 oz. tins, 10c. or lower than | |above schedule. Less than 10 oz. lots | |15c. or higher than above schedule. | |Musk Ambrette, 1 lb cans.....D 13.00 | 15.00 |Ketone, 1 lb cans.....D 12.00 | 13.00 |Xylene, 5 lb cans.....D 2.75 | 3.00 |

NAPHTHA, Solvent, 110 gal. drs.

8000 gal. tank cars wks.....gal35
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NAPHTHALENE, Flake, 175 lb bbls.

Bbls. incl. 5c higher ... | .07 |Bbls. c/1 wks.....D ... | .06 1/2 |Bbls., second hands NY.....D .07 1/2 | .07 1/2 |Balls, 250 lb bbls. wks.....D ... | .05 |Bbls. c/1 wks.....D ... | .07 1/2 |Bbls., second hands NY.....D ... | .05 |Crushed, bgs., wks.....D ... | .06 |Crude, imp., bgs.....D .02 | .03 |Nerolin, 1 lb tins.....D 1.75 | 2.00 |Nickel Metal, electrolytic 100 lb ... | .30 |Ingot, 100 lb kegs.....D .29 | .32 |Salt, single 400 lb bbls, NY.....D .11 | .12 |Double, 400 lb bbls, NY.....D .10 | .11 |Oxide, 100 lb kegs NY.....D .40 | .42 |Sulfate, 450 lb bbls.....D .07 | .07 1/2 |Nitro Cake, bulk wks.....ton 6.50 | 8.00 |500 lb bbls.....ton 9.00 | 9.75 |Nitrobenzene, crude, 1000 lb drs. ... | .09 1/2 |wks.....D .10 | .11 |Redistilled, 1000 lb drs. wks.....D .10 | .11 |Nitronaphthalene, 550 lb bbls.....D .20 | .21 |Nitrotoluene, mixed 1000 lb drs. ... | .14 |wks.....D .14 | .15 |Oil Fuel, see Fuel Oil | |OIL MINERAL, wh. 50 gal. bbls.gal 1.00 | 1.25 |Oil Mirbane, see nitrobenzene | |Opium, see crude drugs | |Orange Mineral, 800 lb casks NY.....D .15 1/2 | .16 |500 lb bbls. NY.....D .15 1/2 | .16 1/2 || Ortho-Aminophenol, 50 lb kegs.....D | ... | 3.00 |
Ortho-Anisidine, 100 lb drs.....D
Ortho-Dichlorobenzene, 1000 lb drs.06
wks.....D	.06	.08
Ortho-Nitrochlorobenzene, 1200 lb18
drs. wks.....D	.18	.20
Ortho-Nitrophenol, 350 lb 3 bbls. D	...	1.25

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Some Baker's Chemicals
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Acid Molybdic
Acid Phosphoric anhydride
Ammonium Molybdate, cryst.
Ammonium Persulfate, 98%
Calcium Chloride, anhydrous, granular
Copper Chloride, cupric*
Nickel Formate
Potassium Binoxalate
Potassium Thiocyanate
Sodium Oxalate
Tin Crystals

*Copper Chloride, Cupric is an unusually high quality product for technical use; very free from cuprous and makes a clear solution. Give it an exacting trial.

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Philipsburg, N. J.

New York Representative: H. B. PRIOR
17 East 42nd Street Phone Vanderbilt 9490

Chemicals

Ortho-Nitrotoluene, 1000 lb. drs. wks. ....	.09	: .10	Para-Phenylenediamine, 350 lb. bbls.	1.45	: 1.55	Phosphorus, red 110 lb. ca. wks. ....	...	: ...
Ortho-Toluidine, 350 lb. bbls. ....	.14	: .16	Para-Toluene-Sulfonamide, 175 lb. bbls. ....	.40	: .41	Imported, 112 lb. cases. ....	...	: ...
Oxgall, USP 5 lb. bot. ....	...	: 3.00	Para-Toluene-Sulfonchloride, 410 lb. bbls. wks. ....	.25	: .30	Yellow, 110 lb. ca. wks. ....	.35	: .40
PALLADIUM, metal 10 oz. lots on 51.00	: 53.00		Para-Toluidine, 350 lb. bbls. wks. ....	.90	: 1.00	Imported, 112 lb. cases. ....	...	: .30
Pancreatin, USP 5 lb. bot.	1.50	: 1.60	PARIS GREEN			Phosphorus Trichloride, 175 lb. cyl. wks. ....	...	: .45
Papain, 1 lb. bot.	1.85	: 2.00	Arsenic Basis, 500 lb. kegs. ....	.27	: .29	Phthalic Anhydride, 175 lb. bbls. ....	.30	: .35
Paraffin, ref'd 200 lb. ca. slabs			Kegs, 100 lbs. ....	.32	: .33	Pilocarpine Hydrochloride, USP 25 oz. lots, 1 oz. vials. ....	...	: 7.50
120-135 Deg. M. P. ....	.03 1/4	: .03 1/4	Kits, 56, 28, 14 lbs. ....	.31	: .33	Nitrate ....	...	: 7.50
125-130 Deg. M. P. ....	.04	: .04 1/4	Packages, 5 and 2 lbs. ....	.32	: .33	Single ounces ....	...	: 5.75
130-135 Deg. M. P. ....	.04	: .04 1/4	Packages, 1 lb., 1/2, 1/4 lb. ....	.34	: .38	Alkaloid, 15 gr. vls. ....	...	: .75
135-140 Deg. M. P. ....	.05	: .06 1/4	Paris White, see whitening, French			Piperazine Hydrate, 1 lb. bot. ....	...	: 16.00
Para-Aminocetanilid, 100 lb. kegs.	1.05	: 1.15	Pepsin, USP 5 lb. bot.	2.25	: 2.50	Pitch, Coal-Tar, wks.	30.00	: 33.00
Para-Aminophenol, 100 lb. kegs. ....	...	: 1.40	PETROLATUM, green 300 lb. bbls. ....	.02 1/4	: .03	Plaster Paris, tech. 250 lb. bbls. bbl. ....	...	: 3.30
Hydrochloride, 100 lb. kegs. ....	...	: 1.65	Dark Amber 300 lb. bbls. ....	.03 1/4	: .04	True Dental, 300 bbls. ....	...	: 4.50
Para-Dichlorobenzene, 50-300 lb. bbls. wks. ....	.17	: .20	Light Amber, 300 lb. bbls. ....	.04 1/4	: .05	Platinum, metal soft 10 oz. lots—ca. ....	...	: 116.00
25-50 lb. kegs. ....	.18	: .22	Cream White, USP 300 lb. bbls. ....	.07	: .07 1/4	Podophyllin, 5 lb. bot.	5.25	: 5.50
Paraformaldehyde, 100 gal. drs. ....	...	: .35	Lily White, USP, 300 lb. bbls. ....	.09	: .09 1/4	Second Hands ....	...	: ...
Paraformaldehyde, USP 100 lb. ca. drs. ....	.52 1/4	: .55	Snow White, USP, 300 lb. bbls. ....	.12 1/4	: .13	POTASH, CAUSTIC, solid 88-92% 700 lb. drs. wks. ....	.09	: .09 1/4
Para-Nitroacetanilid, 300 lb. bbls. ....	.55	: .60	PHENOL, see also acid carbolle			Imp., 88-92% 700 lb. drs. NY. ....	.07 1/4	: .07 1/4
PARA-NITROANILINE, 300 lb. bbls. wks. ....	.74	: .75	American makers, drums wks. ....	.35	: .50	USP, by alcohol 5 lb. cans. ....	.46	: .48
Para-Nitrochlorobenzene, 1200 lb. drs. wks. ....	.21	: .30	Open market, 950 lb. drs. ....	.32	: .35	cases ....	.30	: .35
Para-Nitro-ortho-Toluidine, 300 lb. bbls.	2.75	: 2.85	240 lb. des. drs. wks. ....	...	: .36	POTASSIUM Acetate, USP, 100 lb. kegs. ....	.28	: .29
Para-Nitrophenol, 185 lb. bbls. ....	.75	: .80	Natural 240 lb. des. drs. wks. ....	...	: .28	Bicarbonate, crys. 220 lb. bbls. ....	.08	: .09
Para-Nitrosodimethylaniline, 120 lb. bbls.	1.25	: 1.30	Imported, 336 lb. des. drs. ....	...	: ...	Bichromate, crys. 900 lb. casks wks. ....	.10 1/4	: .10 1/4
Para-Nitrotoluene, 350 lb. bbls. ....	.50	: .60	Phenolphthalein, USP 100 lb. drs. ....	...	: 1.50	Powd., 900 lb. casks wks. ....	...	: .13
Para-oxy-Benzaldehyde, 100 lb. kegs.	1.50	: 1.60	5 lb. cans, 100 lb. lots.	1.55	: 1.60	Binoxalate, 300 lb. bbls. ....	.33	: .34
Para-Pteridin, 500 lb. drs.	1.55	: 1.80	Phenylacetaldehyde, dom. 1 lb. bot.	9.00	: 11.00	Bisulfate, C.P., 5 lb. cans. ....	...	: .30
			Imported	12.00	: 14.00	100 lb. kegs. ....	...	: .22
			Phenyl-Alpha-Naphthylamine 100 lb. kegs. ....	...	: ...	Bromate, 100 lb. ca. ....	...	: .45
			Phenylethylalcohol, 1 lb. bot.	8.00	: 9.00	BROMIDE, USP cryst. 450 lb. bbls. ....	...	: .26
			Imported	8.50	: 10.00	Granular, 300 lb. bbls. ....	...	: .26
			Phosgene, 100 lb. cylinders	: 1.00	Cases 100 lb.	: .27
			Phosphorus Oxichloride, 175 lb. cyl.35	: .40	Imported, USP, 220 lb. ca.17	: .18

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Manufacturers of Chemicals
PITTSBURGH, PA.

U. S. A.

Chemicals

POTASSIUM—(Continued)

CARBONATE, 80-85% calc.		
800 lb cks. lb	.06%	.06%
80-85%, hydrated, 800 lb cks. lb	.07%	.07%
90-95% casks lb	.07	.07%
96-98% casks lb	.07%	.07%
99% casks lb	.09%	.10
USP, 100 lb kegs. lb	.11	.12
Chlorate, crys. 112 lb kgs. e/l wks. lb	.08%	.08%
Imp. 112 lb kegs NY lb	.07	.07%
Powd., 112 lb kegs wks. lb	.08%	.09
Imp. kegs NY lb	.06%	.07%
Pyrotechnic, fine powd. NY. lb	.08	.09
USP, fine crys. 110 lb kegs NY lb	.08	.09
Citrate, USP 10 lb cans. lb	.63	.66
Cyanide, 110 lb cases. lb	.45	.50
Glycerophosphate, 75% Soln. 25 lb tins. lb	1.65	1.70
Gualacol Sulfonate, 5 lb cans. 10 lb lb	1.50	1.75
Hypophosphite, 10 lb cans. lb	...	.85
Iodide, USP, 100 lb cases. lb	3.75	3.85
Second Hands, cases. lb	...	3.65
Lactophosphate, 4 oz bot. oz	...	.90
Metabisulfite, 300 lb bbls. lb	...	.23
Imp., 300 lb bbls. lb	.14	.16
Muriate, 80%, 200 lb bags, NY K ₂ O unit lb	...	.68
Nitrate, see Saltpetre		
Oxalate, neutral, 100 lb kegs. lb	.40	.45
Perchlorate, 112 lb kegs. lb	.09	.10
Permangan, USP, crys. 112 lb drs. lb	.16%	.18%
Prussiate, red, 100 lb bbls. lb	...	.67
500 lb casks lb	...	.65
Prussiate, yellow, 500 lb casks. lb	.32	.35
Salicylate, 25 lb cans. lb	.70	.72

POTASSIUM—(Continued)

Sulfate, 200 lb bags, NY K ₂ O unit	...	.93
USP, VIII, 100 lb kegs. lb	.18	.20
Sulfocyanide, CP 25 lb jars. lb	...	.70
Tartrate, neutral, 100 lb kegs. lb	...	.53
Titanium Oxalate, 200 lb bbls. lb	.80	.32
Pumice Stone, lump, 250 lb bbls. lb	.04%	.06
Lump, bags lb	.03%	.05
Powdered, 350 lb bbls. lb	.02%	.03
Pyridine, 50 gal, drums. gal	4.00	4.25
QUICKSILVER, see Mercury		
Quinidine Alk., 100oz tins. oz	.70	.75
Sulfate, 100oz tins. oz	...	.50
Quinotidine, see Chinoidin		
QUININE SULFATE, USP,		
American, 100oz tins. oz	...	.50
1oz tins, 100oz lots. oz	...	.57
Dutch, 100oz tins. oz	...	.49
Java, 100oz tins. oz	...	.49
Japanese, 100oz tins. oz	...	.49
QUININE ALK., USP, 100oz tins. oz	...	.67
Acetate oz	...	.88
Arsenate oz	...	.88
Benzoate oz	...	.88
Bisulfate, USP oz	...	.50
Citrate oz	...	.62
Dihydride, USP oz	...	.66
Dibromide oz	...	.66
Dicarbonate, 10oz tins. oz	...	2.50
Ethyl Carbonate, 16 oz tins. oz	...	.95
Ferrocyanide oz	...	.88
Formate oz	...	.85
Glycerophosphate oz	...	.88
Hydride oz	...	.88
Hydrobromide, USP oz	...	.62
Hydrochloride, USP oz	...	.62
Hydrochlorosulfate oz	...	.66

QUININE—(continued)

Hydride & Urea, USP. lb	...	.38
Hypophosphite oz	...	.83
Lactate oz	...	.78
Phenolsulfonate oz	...	.88
Phosphate oz	...	.74
Salicylate, USP oz	...	.63
Tannate, USP oz	...	.45
Tartrate oz	...	.88
Valerate oz	...	.89
Small Sizes: 1oz vials or cans, 50oz lots, 5c on extra; 5oz cans, 50oz lots 3c on extra; 25oz cans, 50oz lots, 2c on extra; single 1oz vials or cans, 5c extra. All minor quinine salts sold and quoted basis 100oz lots in 100oz cans. Sulfate and bisulfate sold basis 100oz lots in 100oz cans. Smaller orders or containers extra as above schedule.		
R SALT, 250 lb bbls. wks. lb	.55	.70
Red Lead, see lead oxide		
Red Precipitate, see mercury.		
Resorcin, see resorcinol.		
Resorcinol tech. 100 lb kegs. lb	1.50	1.55
USP, 25 lb cans. lb	2.25	2.35
Rochelle Salt, USP, 225 lb bbls. lb	...	.21
Imp. USP, 300 lb bbls. lb	.20	.21
Rosewater, triple, 5 gal. demis. gal	.90	1.10
Rotten Stone, lump imp., bbls. lb	.07	.09
Lump selected, bbls. lb	.09	.13
Powdered, bbls. lb	.02	.05
Domestic, bags, mines. ton	24.00	30.00



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Made from Java Citronella

Extreme Purity and Delicacy of Odor

Which Will Appeal To The

Discriminating Perfumer

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Chemicals

SACCHARIN, USP, 1 lb cans, 25 lb			Soap, Castile, 40 lb bxs..... lb			SODIUM ACETATE, crys 450 lb bbls		
Soluble, USP, 1 lb cans, 25 lb. lb	1.90	: 2.00	Powd. USP, 250 lb bbls..... lb	.28	: .29	wks..... lb	.05%	: .05%
Safrol, 60 lb cans..... lb	.55	: .60	Green, USP, 150 lb kegs..... lb	.07	: .07%	Ton lots, bbls. wks..... lb	...	: .05%
Sal Ammoniac, see Ammon. Chloride			Soapstone, see Talc, crude			Imp. 500 lb casks..... lb	...	: .05%
Salicin, USP, 1 lb cartons, 25 lb. lb	5.00	: 5.25	SODA ASH, 58% light bags NY			Aluminum Sulfate, see alum soda.		
Salol, USP, 100 lb drums..... lb	.80	: .85	flat, ex-warehouse..... 100 lb	...	: 2.00	Benzonate, USP, 100 lb bags..... lb	.65	: .68
Salt, Common, see sodium chloride.			Bbls., ex-warehouse..... 100 lb	...	: 2.25	Bicarbonate, 400 lb bbls NY 100 lb	...	: 2.25
Salt Cake, c/l f.o.b. wks..... ton	23.00	: 27.00	Contract, Basis 58% bags c/l			Bbls. c/l wks..... 100 lb	...	: 2.00
SALTPETRE, Double Refined			wks..... 100 lb	1.45	: 1.50	112 lb kegs wks..... 100 lb	...	: 2.25
Granular, 400-500 lb bbls.,			Prompt and spot, Basis 58% bags			112 lb kegs, NY..... 100 lb	...	: 2.50
c/l wks..... lb	...	: .06%	c/l wks..... 100 lb	1.51	: 1.56	Bichromate, 600 lb casks wks..... lb	.08%	: .08%
Less c/l works, bbls..... lb	...	: .08%	Soda Ash, 58% dense. bags ex-			Casks, c/l wks..... lb	...	: .08
Large Crystals, 350-400 lb bbls.,			warehouse, NY..... 100 lb	...	: 2.07	Casks, NY..... lb	...	: .08%
c/l wks..... lb	...	: .08	Bbls., ex-warehouse..... 100 lb	...	: 2.30	Bisulfite, dry powder, 500 lb		
Small Crystals, 350-400 lb bbls.			Contract, Basis 58% bags c/l			bbls., wks..... lb	...	: .04%
c/l wks..... lb	...	: .07%	wks..... 100 lb	...	: 1.51	Solution, 32-40°, 500 lb bbls	1.25	: 1.75
Powdered, bbls. c/l wks..... lb	...	: .07%	Pmpt. and spot, Basis 58% bags			wks..... 100 lb	...	: 1.05
Imported, 500 lb bbls., NY..... lb	...	: .07	c/l wks..... 100 lb	1.56	: 1.62	Bromate, 100 lb cs..... lb	...	: 1.05
Santonin USP, 1 lb bot..... lb	...	...	Prices on soda alkalies are based on actual			Bromide, USP, 500 lb bbls..... lb	...	: .25
Powd. 1 lb bot..... lb	...	...	percentages and not N. Y. & L. test.			Cases, 100 lb..... lb	...	: .26
Saponin, ex Quillaja, 5 lb tins..... lb	1.00	: 1.25	SODA, CAUSTIC, 76% solid, resale,			Imp. USP, 112 lb cs..... lb	.18	: .19
Satin, White, 500 lb bbls..... lb	...	: .01%	NY flat..... 100 lb	3.30	: 3.50	Cacodylate, USP, 5 lb bot,		
Schaeffer's Salt, 250 lb bbls. wks..... lb	.60	: .65	76% solid dra. ex-warehouse			25 lb..... lb	6.00	: 6.25
Seidlitz Mixture, 225 lb bbls..... lb	.17	: .18	NY..... 100 lb	...	: 3.70	Carbonate, sal soda, 350 lb bbls		
SILICA			Contract basis 76% c/l wks.			le/l NY..... 100 lb	1.30	: 1.35
Crude, bulk, mines..... ton	10.00	: 12.00	100 lb	...	: 3.16%	Works c/l..... 100 lb	1.10	: 1.30
Refined, floated, bags..... ton	18.00	: 30.00	Pmpt. and spot, Basis 60%			Monohydrate, 400 lb bbl.	...	: 2.45
Air floated, bags..... ton	32.00	: 50.00	c/l wks..... 100 lb	3.25%	: 3.29	le/l..... 100 lb	...	: .08
Extra, floated, bags..... ton	55.00	: 65.00	Contract 76% low grade c/l			Pure		
SILVER, metal, American..... oz	...	: .99%	wks. flat..... 100 lb	...	: 3.35%	keg..... lb	.08	: .09
Foreign..... oz	...	: .63%	Ground & flake, 76% pmpt and			Chlorate, 112 lb kegs, wks..... lb	.06%	: .07
Colloidal, 16 oz bot..... oz	...	: 2.80	spot, wks c/l drs..... 100 lb	...	: 3.65	Imported, 112 lb kegs..... lb	...	: .06%
Silver Iodide, 16 oz bot..... oz	...	: .68	Contract, 76% drums, c/l wks			Chloride, tech. 200 lb bags..... ton	12.00	: 13.00
Nitrate, USP, 200 oz bot..... oz	.44%	: .44%	flat..... 100 lb	...	: 3.60	C. F. 300 lb bbls..... lb	.05	: .06
Nucleinate, 16 oz bot..... oz	.32	: .37	76% dr. ex-warehouse NY 100 lb	...	: 4.15	Citrate, USP, IX, 100 lb kegs..... lb	...	: .62
Proteinates, 16 oz bot..... oz	.34	: .39	USP, stick, 10 lb cans..... lb	.19	: .21	USP, VIII, 100 lb kegs..... lb	...	: .55
			Pure, stick, by alcohol..... lb	.25	: .27	Cyanide, 96-98%, 100 lb cases		
						wks..... lb	...	: .23
						Ton lots, wks..... lb	...	: .23
						78-76%, 100 lb cases, wks..... lb	...	: .20%
						125-128%, 200 lb cs..... lb	...	: .20
						120-125%, 200 lb cs..... lb	...	: .19%
						Fluoride, 350 lb bbls, NY imp. lb	...	: .09



Soda Ash

Modified Soda Bicarbonate of Soda

Caustic Soda Special Alkali

Textile Soda

Manufactured and Sold by

DIAMOND ALKALI COMPANY

GENERAL OFFICES - PITTSBURGH, PA.

Chemicals

SODIUM—(Continued)


Glycerophos, USP, crys 25 lb cans	1.70	1.75
Powder, 25 lb tins	1.75	1.80
Solution, USP 25 lb tins	1.00	1.05
Hydroxide, see Soda Caustic		
Hypochlorite, Soln, 100 lb chgs. D .....	...	.95
14½% soln., 50 lb chgs. D .....	...	.04
Hydrosulfite, 200 lb bbls./ob.wks. D .....	.19	.23
Hypophosphite, USP, 25 lb cans D .....	...	.75
HYPOSULFITE, tech. pea crys., 375 lb bbls. wks. 100 lb	2.90	3.30
Bbls. c/l wks. 100 lb .....	...	2.75
100 lb kegs wks. 100 lb	3.00	3.60
Granulated, bbls. wks. 100 lb	3.15	3.55
Bbls. c/l wks. 100 lb .....	...	3.00
Kegs wks. 100 lb	3.25	3.85
Regular crystals 100 lb	2.65	2.90
Iodide, USP, 25 lb jars. D .....	...	4.25
Metanilate, 150 lb bbls. D .....	.55	.60
Naphthionate, 300 lb bbls. D .....	.60	.62
Nitrate crude, 95%, 200 lb bas c/l NY .....	...	2.42½
Futures, NY .....	...	2.45
Double Refined, 400 lb bbls gran. c/l wks. D .....	...	.04½
Nitrite, 500 lb bbls. wks. D .....	.07½	.07½
Bbls. spot, makers. D .....	...	.07½
Imp. 650 lb casks. D .....	...	.07½
Ortho-Chloro-para-Toluene Sulfonate, 175 lb bbls. wks. D .....	.25	.27
Oxalate, neutral, 100 lb kegs. D .....	...	.47
Perborate, 275 lb bbls. D .....	...	.24
Imp. 225 lb drs. D .....	.18	.19
Peroxide, 200 lb cases. D .....	.25	.27
Phosphate, di-sodium, tech 550 lb bbls. D .....	.03½	.03½
USP, gran. 275 bbls. D .....	.07	.07½
Imp. gran. D .....	.05½	.06
USP, recryst 275 bbls. D .....	.10	.11
Mono-sodium 100 lb kegs. D .....	.24	.26
Tri-sodium tech. c/l, bbls. D .....	.04½	.05
Picramate, 100 lb kegs. D .....	...	.60

SODIUM—(Continued)

Para-Toluene Sulfonate, 175 lb bbls .....	.08	.09
PRUSSATE, yellow, 450 lb csk. D .....	.13	.14
250 lb bbls. D .....	...	.15½
Pyrophosphate, 100 lb kegs. D .....	.18	.22
Salicylate, 100 lb kegs. D .....	.47	.52
Second Hands, USP, kegs. D .....	.47	.49
Silicate, 60° 700 lb bbls. f.a.s. NY .....	...	2.00
Works, 1000 lb drums. 100 lb .....	...	1.90
Works, tanks .....	...	1.75
40° domestic, 700 lb c/l f.o.b. wks. 100 lb .....	...	.80
Works, 1000 lb drums. 100 lb .....	...	.82½
Works, tanks .....	...	.75
Spot, drums, bbls. 100 lb	1.30	1.50
Silicofluoride, 450 lb bbls. NY. D .....	.07½	.07½
Sulphate, see Glauber's Salt.		
Sulfide, 60% solid, 650 lb drs lc/l wks. D .....	.05	.05½
Dr. c/l wks. D .....	...	.04½
Imp. 700 lb drs. NY. D .....	.03	.03½
60% broken, 650 lb drs wks. D .....	.05	.05½
Imp, 500 lb drs. NY. D .....	.03½	.03½
30% crys. 400 lb bbls.wks. D .....	.02½	.02½
Imp., 400 lb bbls. D .....	.02½	.02½
Sulfite, crys, 400 lb bbls wks. D .....	.03½	.03½
Desiccated, 400 lb bbls. D .....	.09½	.10
Sulfocarbonate, USP, 100 lb kegs .....	.42	.44
Sulfocyanide, 400 lb bbls. D .....	.45	.47
Tungstate, crys 100 lb kegs. D .....	...	.55
Desiccated, kegs .....	...	.85
Solvent Naphtha, see Naphtha		
Spartein Sulfate, USP, 25oz bulk.oz .....	.60	.70
Single oz. vial. D .....	...	.60
Starch, rice, 140 lb bags. D .....	.09	.10

STRONTIUM Bromide, USP, 100 lb

kegs .....	...	.33
Carb. 600 lb bbls. wks. D .....	...	.07
100 lb kegs wks. D .....	...	.08
Iodide, USP, 25 lb jars. D .....	...	4.00
Nitrate, 600 lb bbls. wks. D .....	...	.11½
Imp., bbls. NY. D .....	.09½	.10
Salicylate, USP, 100 lb kegs. D .....	...	.85
STRYCHNINE Alkaloid, USP, crys 100oz tins .....	...	1.15
Alk. powd, USP. D .....	...	1.65
Acetate .....	...	1.05
Glycerophosphate, USP .....	...	1.05
Hydrobromide .....	...	1.05
Hydrochloride .....	...	1.05
Hypophosphite .....	...	1.15
Nitrate, USP .....	...	1.05
Phosphate .....	...	1.05
Sulfate, USP, crys powd. D .....	...	.84
Saccharinate .....	...	2.15
Strychnine preparations quoted bases 100oz lots in 100oz tins. Small Sizes; ½oz vials, 50c extra; ¼oz vials, 25c extra; single ounce vials, 7c extra. Lots of 25 ozs. 5c higher than above schedule. Lots of less than 25 ozs. 10c higher per oz.		
Sugar Milk, USP, 200 lb bbls. D .....	.21	.22
Second Hands, USP, bbls. D .....	.21	.22
Sulfonal, see Sulfonmethane.		
Sulfonethylnmethane, USP, bxs 5 lb. D .....	...	4.00
Sulfonmethane, USP, 5 lb bxs. D .....	...	3.00
SULFUR, crude, bulk, c/l NY. ton .....	...	19.00
Crude, f.o.b. mines. ....ton	14.00	15.00
Brimstone, 250 lb bgs, c/l 100 lb	1.75	1.95
Less c/l bags NY	1.85	2.10
Roll, 500 lb bbls c/l NY. 100 lb .....	...	2.15
Less c/l bags NY. ....100 lb	2.20	2.45
Flour, Heavy, 280 lb bbls, 100 lb	2.50	3.05
Light, 100%, 260 lb bbls, 100 lb	2.60	3.15
Rubbermakers 100%, 240 lb bbls, NY	2.60	3.15



SOLVAY

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SODA ASH
CAUSTICIZED ASH

CAUSTIC SODA
MODIFIED SODA

Chemicals

SULFUR—(continued)

Commercial, 99%, 150 lb bgs		
NY	1.35	1.85
For Dugting, 99%, 100 lb		
bgs NY	2.00	2.50
Flowers, 100%, 240 lb bbls		
NY	3.00	3.55
Precipitated, 125 lb bbls NY..	.14	.16
Lac, 125 lb bbls NY.....	.07	.10
Sulfur Chloride, red, 700 lb drs		
Wks .....	.05	.06
150 lb chys wks .....	..	.06
Yellow, 700 lb drs, wks.....	.05	.06
150 lb chys. wks.....	..	.06
Sulfur Dioxide, 100 lb cyl.....	.08	.08½
Iodide, USP, VIII, 5 lb bot...	..	4.55
Sulfuric Ether, see Ether.		
Sulfuryl Chloride, 600 lb drs B	..	.70
ITALC, Italian, 220 lb bags NY..ton	35.00	40.00
Refined, white, bags.....ton	42.00	55.00
French, 220 lb bgs. NY.....ton	35.00	30.00
Refined, white, bags.....ton	32.00	45.00
Dom., crude, 100 lb bags NYton	10.00	15.00
Refined, 100 lb bags NY.....ton	13.00	25.00
Tartar Emetic, tech. 700 lb bbls. B	.26	.27
USP, 300 lb bbls.....	.28	.28½
Terpin Hydrate, USP, 100 lb kegs B	.70	.72
Terpineol, CP 1000 lb drums.....	.50	.53
Cans, 50 lb .....	.55	.57
Imported, cans, 25 lb	1.00	1.25
Terpenyl Acetate, 25 lb cans.....	1.65	1.85
Terra Alba, No. 1, 300 lb bbls 100 lb	1.85	1.90
No. 2, bbls.....	1.25	1.35
Theobromine Alk., 5 lb cans.....	4.00	4.50
and Sod. Salicylate, 1 lb bot...	2.80	2.90
Thiocarbamid, 170 lb bbls.....	.28	.30
Thymol, USP, 100 lb cans.....	3.00	3.50
Iodide, 5 lb boxes.....	..	6.75
TIN, Metal Strais, NY.....100 lb	..	39.50
American standard, NY.....100 lb	..	39.00
99% American, NY.....100 lb	..	39.00
C.P. money, 25 lb bgs NY. B	..	..

Tin—(continued)

Bichloride, 50% soln 100 lb		
bbls. wks.....	..	.11½
Crystals, 500 lb bbls. wks.....	..	.30½
100 lb kegs, wks.....	..	.31
Oxide, 400 lb bbls. wks.....	..	.47
100 lb kegs wks.....	..	.49
Tetrachloride, 1000 lb drs. wks. B	..	.25
Tollidine, 350 lb bbls.....	.95	1.00
Sulfate, 350 lb bbls.....	..	1.00
Toluene, 8000 gal tank cars, wks. gal	.29	.30
110 gal drs wks .....	.34	.35
Toluidine, Mixed, 900 lb drs. wks. B	.31	.32
Tribromphenol, 100 lb cases.....	..	1.00
Trional, see Sulfonethylmethane.		
Triphenyl Phosphate, 450 lb bbls. B	..	.60
Tripoll, 500 lb bbls.....100 lb	2.50	3.00
Tungsten NY	8.25	8.50
UREA, pharm 112 lb cases.....	..	.40
VANILLIN, USP, 400 oz cans.....oz	.40	.40½
Cans, 80 oz.....	..	.40½
Cans, 16 oz.....	..	.41½
Verdigris, see Copper Subacetate		
Vermilion, Amer. 100 lb kegs.....	..	.35
English, kegs .....	..	1.30
Veratrine Sulfate, 1 oz vial.....oz	..	2.50
Hydrochloride, 1 oz vial.....oz	..	2.50
Veronal, see Acid Diethylbarbituric		
WHITE LEAD, see lead, white.		
White Precipitate, see mercury.		
Whiting, 200 lb bags, c/1 wks. ton	14.00	16.00
Bags, 12/1 NY.....	..	22.50
Gilders, bags, NY.....	13.50	15.00
French, bags, NY.....	..	18.00
English, bags, NY .....	..	23.00
Witch Hazel Extract, 50 gal bbls. gal	1.20	1.25

XYLENE, 2° dist range, nitration

tk. wks.....	..	..
110 gal drs. NY.....	gal	..
5° dist. range, 8000 gal tanks	..	.35
wks.....	gal	..
110 gal drs. wks.....	gal	..
Commercial, 110 gal drs., wks. gal	..	..
Tanks, wks.....	gal	..
Xylidine, 900 lb drs.....	..	.50
YARA YARA, 1 lb tins.....	..	1.75
Yohimbin Hydrochloride, 1 oz. vial. oz.	..	7.00
ZINC, METAL, high grade, slabs		
c/1 NY .....	..	9.00
Common Slabs, c/1 NY.....100 lb	6.40	6.45
Mossy, 25 lb bgs NY.....	..	.16
Ammonium Chloride, powd., 400 lb		
bbls.....	.07½	.08
Carb. tech. 150 lb kegs NY..	..	.18
USP, 100 lb kegs.....	..	.30
Chloride, fused, 600 lb drs. wks. B	..	.06
Drs. c/1 wks.....	..	.05½
Imp. drs. NY.....	..	.05½
Granulated, 500 lb bbls. wks. B	..	.08
Imported, drs. NY.....	..	.06½
USP, 25 lb jars.....	..	.25
Cyanide, 100 lb drs.....	..	.42
Dust, 100 lb tins wks.....	..	.09½
500 lb bbls, kegs, 12/1 wks. B	..	.09
500 lb bbls, kegs, c/1 wks. B	..	.08
Iodide, 5 lb bottles.....	..	5.30
Nitrate, 25 lb jars.....	..	.35
Oxide, Amer. 300 lb bbls, wks.....	..	.08½
Bbls. c/1 wks.....	..	.08½
French, 300 lb bbls wks.....	..	.10½
Bbl c/1 wks.....	..	.10
Bags, c/1 wks.....	..	.09½
USP, 100 lb bbls. c/1.....	..	.16
Ton lots, wks.....	..	.17
Imported, white seal, bbls.....	..	.12½
Green seal, bbls.....	..	.10
USP, 100 lb bbls.....	..	.15
Stearate, USP, 60 lb bbls.....	..	.23
Sulfate, 400 lb bbls. wks.....	..	.03½
Bbls. c/1 wks.....	..	.02½
USP, 100 lb kegs.....	..	.08
Sulfocarbonate, 100 lb kegs. B	..	.37



SULPHUR

SUBLIMED
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FLOWERS
PRECIPITATED 100%
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Incp. 1902

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Pure Toluol
Benzol 90%
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Oils

Caster, No. 1, 400 lb bbls.	14	15
80 lb cases	15	16
No. 3, bbls.	13 1/2	14 1/2
Blown, 400 lb bbls.	15 1/2	16 1/2
China Wood, bbls., spot NY.	23 1/2	24
8000 gal. tks. NY.	23 1/2	24
Aug. Sept. forward, bbls. China.	23 1/2	24
Coast, tanks, Aug. forward.	22 1/2	23
Coconut Ceylon, 375 lb bbls. NY.	09 1/2	09 3/4
8000 gal. tanks. NY.	09 1/2	09 3/4
Cochin, 375 lb bbls. NY.	10 1/2	11
Tanks, NY.	09 1/2	09 3/4
Manila, tanks, P. Coast.	07 1/2	08
Edible, bbls. NY.	10 1/2	10 3/4
Cod Newfoundland, 50 gal. bbls. gal.	62	65
Tanks, NY.	62	65
Copra, bags	05	05
Corn, ref. 375 lb bbls. NY.	12 1/2	12 3/4
Crude, tanks mills.	07 1/2	08
Bbls. NY.	10	10 1/2
Cottonseed, crude tks. mills.	10	10 1/2
P. S. Y., 100 bbl. lots NY.	10 1/2	10 3/4
White, 100 bbl. lots NY.	10 1/2	10 3/4
Winter yellow, 100 bbls. NY.	10 1/2	10 3/4
Winter yellow, 100 bbls. NY.	11 1/2	11 3/4
Degras, Amer. 50 gal. bbls., NY.	08 1/2	09
English, bbls. NY.	04	04 1/2
Neutral, bbls. NY.	11	11 1/2
Groases, choice white, bbls. NY.	08 1/2	09
Yellow	05 1/2	06
Brown	05 1/2	06
Horse	06	06 1/2
Bone naphttha	06	06 1/2
Herring, Tanks, Coast.	10	10 1/2
Horse, 375 lb bbls. NY.	11 1/2	11 3/4
Lard, prime steam bbls.	12 1/2	13
Compound, bbls.	12 1/2	13
LARD OIL, Edible prime, bbls.	12	12 1/2
Off prime, bbls.	11 1/2	12
Extra bbls.	11	11 1/2
Extra No. 1, bbls.	11	11 1/2
No. 1 bbls.	10 1/2	11
No. 2 bbls.	10	10 1/2

LINSEED, raw c/l bbls. spot.	1.00	1.00
Fire bbls., raw	1.05	1.05
Boiled, 5 bbl. lots	1.07	1.07
Double boiled 5 bbl. lots	1.08	1.08
Raw, 12/1 bbls.	1.05	1.05
Aug., Sept., Oct., c/l bbls.	.99	.87
Imported, bbls., NY.	.99	1.02
Tanks, NY	.98	.99
Menhaden, crude, bbls. wks.	48	50
Crude, tanks wks. Balt.	48	50
Light strained, tanks	72	74
Light strained, bbls. NY.	72	74
Yellow bleached, bbls. NY.	74	76
Blown, bbls. NY.	82	82
Neatsfoot, 20° c.t. bbls. NY.	15 1/2	16 1/2
30° cold test, bbls. NY.	15 1/2	16 1/2
Prime, bbls. NY.	14 1/2	15 1/2
Geo Oil, No. 1, bbls. NY.	11 1/2	12 1/2
No. 2, bbls. NY.	10 1/2	11 1/2
No. 3, bbls. NY.	9	10
OLIVE, denatured bbls. NY.	1.10	1.15
Edible, bbls. NY.	1.70	2.00
Foots, bbls. NY.	.08 1/2	.08 1/2
Shipment	.08 1/2	.08 1/2
Palm Lagos, 150 lb casks.	.07	.07 1/2
Niger casks	.06 1/2	.07
Bonny old Calabar, casks.	.09	.09 1/2
Palm Kernel, 1500 lb casks NY.	.16	.16 1/2
Peanut, refined bbls. NY.	.12	.12 1/2
Crude, mills buyers' tks.	.15 1/2	.16
Crude, bbls. NY.	2.20	2.20
Perilla, bbls. NY.	.82	.83
Poppysseed, bbls. NY.	.98	.98
Rapeseed, refined bbls. NY.	.09 1/2	.10
Blown, bbls., NY.	.09 1/2	.10
Red Oil, distilled, bbls.	.08 1/2	.09
Saponified, bbls.	1.00	1.00
Tanks	.45	.45
Salmon, 8000 gal. tks. Coast.	1.00	1.00
Sesame, domestic edible bbls.	1.00	1.00
Sod Oil, bbls. NY.	1.00	1.00

SOYA BEAN, crude tks. Coast.	.09 1/2	.09 1/2
Crude, Tks. D.P., NY.	.11 1/2	.12
Crude, bbls. NY.	.11 1/2	.12
Sperm, 38° c. t. bchd. bbls. NY.	.92	.94
45° cold test, bchd. bbls. NY.	.92	.94
STEARIC ACID, s.p. 200 lb bags.	.12 1/2	.13 1/2
Double pressed, bags.	.13	.13 1/2
Double pressed, bgs, saponified.	.13	.13 1/2
Triple pressed, bgs, distilled.	.14 1/2	.14 1/2
Triple pressed, bgs, saponified.	.14 1/2	.14 1/2
Stearine, oleo, bbls.	.09 1/2	.09 1/2
Lard, bbls.	.13	.13
Tallow, edible, tierces.	.08 1/2	.08 1/2
City extra, loose	.06 1/2	.06 1/2
Tallow Oil, acidless tks. NY.	.08 1/2	.08 1/2
Bbls., c/l NY.	.10	.10
Walnut, crude bbls. NY.	—	—
Whale, nat. winter bbls. NY.	.75	.80
Bchd. winter bbls. NY.	.78	.80
Extra Bchd. bbls. NY.	.81	.82
Crude, No. 1, tanks Coast.	—	—
Crude, No. 2, tanks Coast.	—	—
Crude No. 3, tanks Coast.	—	—

Fertilizer Materials

Ammon. Sulf. bulk wks.	100 lb	3.20
Double bgs, f.a.s. NY.	100 lb	3.50
Blood, dried f.o.b. NY.	unit	3.75
Bone, 3 & 50 ground steamed.	ton	28.00
Raw, Chicago	unit	30.00
Cyanamide wks.	unit	2.25
Fish Scrap, dried wks.	unit	4.00 & .10
Acid, Bulk, 7 & 3 1/2, sav.	unit	3.50 & .50
NITRATE SODA, NY.	100 lb	2.42 1/2
Phosphate Rock, f.o.b. mines.	ton	3.25 & 4.50
Florida pebble, 68-75%	ton	5.50
Tennessee, 72%	ton	9.00
Phosphate Acid, 18% Bulk wks.	ton	8.50
Potassium Murate, 80%	unit	.68
Sulfate	unit	.93
Steamed Bone Meal, NY.	ton	35.00
Tankage, ground, NY.	unit	3.50 & .10
High grade f.o.b. Chicago.	unit	3.50 & .10



Hydrochloric Acid, C. P.

Spec. Grav. 1.178-1.183 6 lbs.

THE STANDARD OF PURITY

Acidity	35-36% HCl
Fe	.00001%
H ₂ SO ₄	.00025%
Free Cl	"Nil"
As	Trace
Nonvolatile	.0002%

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Spirits Turpentine, bbls.....gal	: .95
Wood Turpentine, stm. distd. bbls.gal	: .85
Destructive distilled, bbls.....gal	: .60
Pine Oil, stm dist'd, bbls.....gal	: .68
Pitch, prime.....bbl	: 6.00
Resins. (Sold in 600 lb bbls, gross for net, quotations based on a unit of 280 lb)	
B.....280 lb	: 5.90
D.....280 lb	: 6.00
E.....280 lb	: 6.00
F.....280 lb	: 6.00
G.....280 lb	: 6.00
H.....280 lb	: 6.00
I.....280 lb	: 6.00
K.....280 lb	: 6.00
M.....280 lb	: 6.05
N.....280 lb	: 6.75
WG.....280 lb	: 7.00
WW.....280 lb	: 7.25
Resin Oil, first run, 50 gal. bbls.gal	: .45
Second run, bbls.....gal	: .47
Tar, kiln-burnt.....bbl	: 13.25
Retort.....bbl	: 12.00

Woods

Barwood, chips.....lb	.04½ : .05
Camwood, chips.....lb	.09 : .13
Diri Divi, pods 100-200 lb bags.ton	38.00 : 40.00
Fustic, sticks.....ton	30.00 : 35.00
Chips.....lb	.04 : .06
Hemlock, bark.....ton	: 20.00
Hyperic, chips.....lb	.06½ : .07
LOGWOOD, sticks.....ton	28.00 : 30.00
Chips 150 lb bags.....lb	.02½ : .03
Mangrove bark, African.....ton	: 33.00
Bark, South American.....ton	25.00 : 30.00

Myrobalans, 150 lb bags J1.....ton	: 33.00
B1.....ton	: 35.00
J2.....ton	: 27.00
Nutgalls, see Crude Drugs	
Oak bark, whole.....ton	30.00 : 33.00
Ground.....ton	: 35.00
Quercitron bark, rough.....ton	: 10.00
Ground.....ton	20.00 : 25.00
Sumac, Sicily, 160 lb bags.....ton	76.00 : 80.00
Virginia, 150 lb bags.....ton	: 35.00
Valonia cups, 28-33% tan.....ton	34.00 : 36.00
Beard, 40% tan, 150 lb bags.ton	: 56.00
Wattle bark, 150 lb bags.....ton	: 35.00

Extracts

Range of prices includes quality
range for large quantity.

Annatto, fine.....lb	.26 : .29
Archil, double 600 lb bbls.....lb	.16 : .18
Triple, 600 lb bbls.....lb	.17 : .19
Conc., 600 lb bbls.....lb	.18 : .20
Chestnut, clarified, 25% tks. wks. lb	.02 : .02½
Bbls, wks.....lb	.02½ : .03
Powd., 60% 100 lb bbls. wks. lb	.05½ : .06
Decolorized, bbls. wks. lb	.08 : .09
Cudbear, English.....lb	.21 : .23
Cutch, Rangoon, 100 lb bales.....lb	.13 : .16
Borneo, solid, 100 lb bales.....lb	.04 : .05½
Liquid, 450 lb bbls.....lb	.10 : .11
Tablets, 120 lb boxes.....lb	.13 : .14
Flavine.....lb	.90 : .95
Fustic, solid 50 lb boxes.....lb	.14 : .18
Crystals, 100 lb boxes.....lb	.22 : .24
Liquid, 51°, 600 lb bbls.....lb	.10 : .14
Gal extract.....lb	.16 : .18
Gambier, 25% liq. 450 lb bbls. lb	.08½ : .09½
Common, 200 lb cases.....lb	.10½ : .11
Singapore cubes, 150 lb bags.....lb	: .
HEMATINE, Paste, 500 lb bbls. lb	.11½ : .13½
Crystals, 400 lb bbls.....lb	.16 : .20
Hemlock, 25% 600 lb bbls. wks. lb	.03½ : .03½
Hyperic, 51°, 600 lb bbls.....lb	.15 : .20
Indigo, Madras bbls.....lb	.85 : .90
Manila, bbls.....lb	: 1.30

Larch, 25%, 600 lb bbls, wks. lb	.03½ : .03½
Powd. 100 lb bags, wks. lb	.07½ : .08
Logwood, 51°, 450 lb bbls.....lb	.07½ : .12½
Solid, 50 lb boxes.....lb	.15 : .21
Madder, Dutch.....lb	.28 : .30
Mangrove, 55% 400 lb bbls.....lb	.03½ : .04
Myrobalans, 25% liquid bbls.....lb	.04 : .05
50% solid, 50 lb boxes.....lb	.04 : .05
Oak, tanks wks.....lb	.04 : .04½
28-25% liq. 600 lb bbls. wks. lb	.05 : .05½
Osage Orange, 51° liquid.....lb	.07 : .08
Powd. 100 lb bags.....lb	.14 : .15
Persian Berries.....lb	.27 : .30
QUEBRACHO, 35% liquid tks. lb	.03½ : .04
450 lb bbls.....lb	: .04½
35% bleaching, 450 lb bbls. lb	.04 : .05½
Solid 65% 100 lb bales.....lb	.05 : .05½
Clarified bales.....lb	: .06
Quercitron, 51° 450 lb bbls.....lb	.06½ : .07½
Powdered, 100 lb boxes.....lb	.09 : .13
Spruce, 25% liquid tanks wks. lb	.01 : .01½
Powd. 50% 100 lb bags wks. lb	.02 : .02½
Sumac, liquid 450 lb bbls.....lb	.07 : .09

DYERS' SUNDRIES

Albumen, technical, egg 200 lb cs. lb	1.06 : 1.10
Blood, domestic, 100 lb drs. lb	.45 : .55
Spray Yolk 150 lb cs.....lb	.45 : .65
British Gum, 140 lb bags c/l 100 lb	: 4.24
Bags, lc/l.....100 lb	: 4.34
Dextrin, corn 140 lb bags c/l 100 lb	: 3.79
Bags, lc/l.....100 lb	: 3.89
Yellow, bags c/l.....100 lb	: 3.84
Potato 140 lb bags c/l.....lb	: .07
Bags, lc/l.....lb	.07½ : .08½
Tapioca, 200 lb bags, lc/l.....lb	: .09½
Prussian blue.....lb	.60 : .62
Sago Flour, 150 lb bags.....lb	.04½ : .05
STARCH, powd. 140 lb bags c/l 100 lb	: 3.22
Bags lc/l.....100 lb	: 3.32
Pearl, 140 lb bags c/l.....100 lb	: 3.12
Potato, domestic, 200 lb bags. lb	.04½ : .05
Imported, bags duty paid. lb	.05 : .05½
Tapioca Flour, high grade bags.....lb	.06 : .06½
Medium grade, bags.....lb	.04½ : .05
Low grade, bags.....lb	.04½ : .04½
Turkey Red Oil, bbls.....lb	.11 : .12
Yolk Oil, bbls.....lb	: .35

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Crude Drugs

Acetoides Gum, yel.,	.18	.20
ACONITE Leaves, bales	.25	.27
Aconite Root, USP, bags	.40	
Agar Agar, 1, 200 lb bales	1.60	1.70
No. 2, bales	1.50	1.60
No. 3, bales	1.45	1.55
Agaric, white, cases	...	...
Almonds, bitter bags, bxs	.32	.35
Sweet, bags	.45	.46
Meal, tins, boxes	.28	.30
Aletris Root, bags	.52	.57
Alkanet Root, bags	.08	.10
Aloes, Barbadoes, 120 lb bbls	.65	.70
Cape, 400 lb cases	.09	.10
Curacao, 100 lb cases	.08 1/4	.08 1/2
Socotrine, whole 100 lb cs	.30	.32
Althea Root, cut cases	.28	.40
Whole bags	.09	.10
Ambergris, black boxes	...	8.00
Grey, boxes	...	28.00
Ammoniac, tears, bags	1.35	1.40
Angelica Root, dom, bags	.14	.15
Angostura Bark, bags	.08	.10
Anise, Levant bags	.17	.17 1/4
Star, cases	.12 1/4	.13
Spandib, bags	...	...
Anatto Seed, bags	.11 1/4	.12
ARABIC GUM		
White, No. 1, 200 lb bags	.26	.28
Seconds, 250 lb bags	.24	.26
Sorts, amber, 200 lb bags, bbls	.14	.14 1/4
Powd., USP, 300 lb bbls	.22	.23
Areca Nuts, 150 lb bags	...	.09
Powd., 200 lb bbls	...	.12
Arnica Flowers, bales	.08	.08 1/4
Root, bags	.20	.22
Arrowroot, Amer. powd. bbls	.06 1/4	.09 1/4
St. Vincent, powd. bbls	.14	.14 1/4
Asafetida, USP, 250 lb cases	.25	.28
Powd. 50 lb bxs	.50	.53
BALM GILEAD BUDS, bags	.42	.44
Balmory Herb, bales	...	.14

BALSAMS

Copalba, Para, 80 lb cs	.23	.25
South American, 80 lb cs	.28	.29
Fir Canada, cans	13.00	14.00
Oregon, bbls, cans	3.00	3.25
Peru, 120 lb cases	1.75	1.80
Tolu, 90 lb cases	1.35	1.50
Bamboo Brier Root, bags	.06	.07
Barberry Bark, tree bales	.22	.24
Bayberry Bark, bales	.09	.11
Wax, bbls	.28	.30
Belladonna Leaves, bales	.18	.19
Root, bags	.12	.13
Rees Wax, white bbls	.37	.39
Yellow, refined bbls	.22	.23
Crude, bags	.20	.21
Benzoin Gum, Siam, boxes	1.15	1.20
Sumatra, 80 lb boxes	.30	.32
Berberis Aquifolium Root, bags	.17	.18
Beth Root, bags	.22	.25
Blackhaw Bark, root, bales	.40	.42
Tree, bales	.24	.25
Blood Root, bags	.12	.14
Blueflag Root, bags	.23	.25
Roldo Leaves, bales	.20	.21
Ronset Herb, bales	.09	.12
Borage Flowers, bales	.18	.20
Bryonia Root, bags	.09	.10
BUCHU LEAVES, short, 250 lb		
bales	.90	.95
lest, bales	1.00	1.05
Long, bales	...	...
Buckthorn Bark, bales	.07	.08
Burdock Root, bags	.18	.20
Burgundy Pitch, dom. 110 lb stands	...	.05
Gross for net	...	.05
Calabar Beans, bags	.15	.18
Calamus Root, bleached cases	.40	.42
Unbleached, bags	.10	.12
Calendula Petals, imp. bales	...	.30
Calisaya Bark, bales, powd.	.24	.25
Camphor, see Chemicals	...	...
Canary Seed, Morocco bags	...	.06
South American, bags	.05	.05 1/4
Candella Wax, bags	.24	.27
Canella Alba Bark, bales	.52	.55

Cannabis, true imp. bags	...	4.25
American (no assay) bales	.80	.85
USP	1.70	1.85
Cantharides, Chinese cases	.98	1.03
Powd., boxes	1.18	1.20
Cantharides, Russian, cases	1.70	1.75
Powdered, boxes	1.85	1.90
Caraway Seed, African, bags	.20	.21
Dutch, 110 lb bags	.18 1/4	.19
Cardamom bleached cases	1.20	1.70
Decorated, cases	1.05	1.15
Green, grinding, bags	.92	.94
Carnauba Wax, Flor. bags	.52	.53
No. 1 N Country bags	.40	.42
No. 2 N Country bags	.24	.26
No. 3 Fatty Gray, bags	.19 1/4	.20
No. 3 Chalky, bags	.19 1/4	.20
Cascara Amarga, 150 lb bales	.30	.32
Cascara Sagrada, bales	.15	.16
Cascarilla Bark, quilla bales	.30	.35
Siftings, bbls	.20	.25
Cassia Buds, 60 lb cases	.12 1/4	.13
China, select, mate cases	.06 1/4	.07
Salson, assort. bales	.26	.27
Cassia Fistula, baskets	.09 1/4	.10
Castor Beans, bags	.03	.03 1/4
Castoreum, 1 lb bot.	4.00	4.50
Catechu Gum, bags	.09	.10
Catnip Herb, bales	.12	.15
Celery Seed, 220 lb bags	.21	.22
Cerosin Wax, white bags	.09	.10
Yellow, 200 lb bags	.08	.09
CHAMOMILE FLOWERS, Roman	...	...
bales	.13	.13 1/4
Hung. cases bales	.06	.06 1/4
Charcoal Willow, powd. bbls	.04	.05
Wood, powd. bbls	.07	.08
Chestnut Bark, bags	.06	.06 1/4
Herb, bales	.75	1.00
Chicle Gum, bags	.10	.12
Chiretta, bales	.55	.60
Cinchona Bark, red quills bales	.23	.25
Broken, bales	.22	.22 1/4
Cinnamon, Ceylon, bales, bond.	2.75	3.75
Civet, Abyssin horns	.17	.18
Clove Type, bags
Cloves, Zanzibar, 135 lb bales	.29 1/4	.30
Amboyas, bales
Penang, bales

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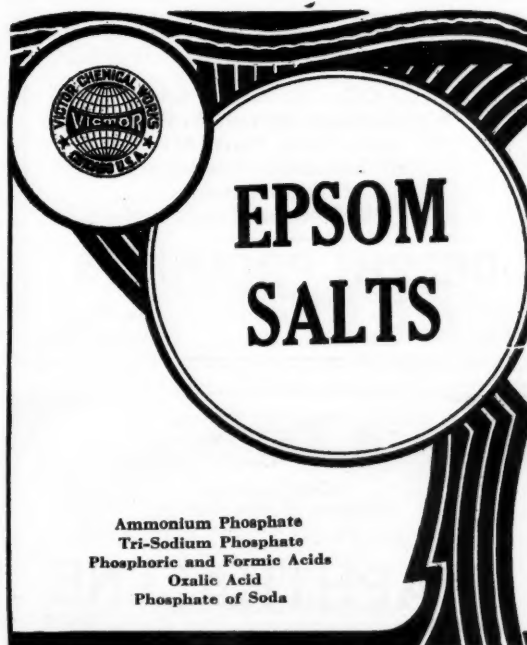
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CHICAGO

Crude Drugs

Cochineal, USP, boxes.....lb	.35	: .37	Dogwood Bark, Jamaica bags....lb	.11	: .13	Grindelia Robusta Herb, bales...lb	.07	: .07%
Coca leaves, Huancabá bags....lb	...	: ...	Flowers, bales.....lb	...	: .15	Guaiac Gum, 80 lb cases.....lb	.32	: .35
Truxillo, bags.....lb	...	: .55	Doggrass Root, USP, cut bags...lb	.12	: .15	Gurana, thin, cases.....lb	.60	: .70
Cobosh Root, Black bags.....lb	.10	: .11	Dragons Blood, mass cases.....lb	.55	: .60	GUM, see Arabic Gum, etc.		
Blue, bags.....lb	.18	: .19	Reeds, boxes.....lb	1.40	: 1.45	HELLEBORE ROOT,		
Colchicum Root, bags.....lb	.08	: .09	ECHINACEA ROOT, bags.....lb	.32	: .34	Black, bbls.....lb	.08	: .10
Seed, bags.....lb	.10	: .11	Elecampane Root, bags.....lb	.09	: .10	Powdered.....lb	.13	: .15
Colombo Root, whole bags.....lb	.02	: .04	Elder Flowers, bags.....lb	.20	: .21	White, Powd, 250 lb bbls....lb	.17	: .18
Calocynth, apples cases, bales...lb	.17	: .22	Elemi Gum, 39 lb cases.....lb	.10	: .11	Helonias Root, (unicon false)		
Pulp, USP, bales.....lb	.36	: .38	Elm, select, 5 lb bundles cases...lb	.25	: .26	bags.....lb	.68	: .70
Coltsfoot Leaves, bags.....lb	.06	: .07	Grinding, bags.....lb	.10	: .12	Hemp Seed, Manchurian bags...lb	.03%	: .04
Comfrey Root, bags.....lb	.13	: .14	Powdered, bbls.....lb	.16 1/4	: .17	Chilian, bags.....lb	...	
Condurango Bark, bales.....lb	.14	: .15	ERGOT, 150-200 lb bags.....lb	.51	: .55	Menbane Leaves, bales, USP...lb	.35	: .40
Conium Seeds, bags.....lb	...	: .16	Eucalyptus Leaves, bales.....lb	...	: .05	No assay.....lb	.30	: .35
Copaiba Balsam Para, see Balsams			Euphorbia Pilulifera Herb, bags...lb	...	: .20	Henna Leaves, bales.....lb	.13	: .14
Copal Gum.....lb	.12	: .15	Euphorbium Gum, cases.....lb	...	: .32	Powdered.....lb	.17	: .18
Coriander Seed, Bombay bags....lb	.05	: .07	Powdered, boxes.....lb	...	: .40	Honey, Calif, 120 lb cases...lb	.11 1/2	: .12
Morocco, bags.....lb	.10 1/4	: .10 3/4	Fennel Seed, French, bags.....lb	.14	: .17	Hops, N. Y. prime bales.....lb	.18	: .20
Bleached, bags.....lb	.14 1/4	: .15 1/4	German, bags.....lb	.19	: .21	Pacific Coast prime bales....lb	.16	: .18
Corn Silk, bales.....lb	.05 1/4	: .06	Indian, bags.....lb	.12 1/4	: .13 1/4	Horhound Herb, bales.....lb	.10	: .11
Cotton Root Bark, bales.....lb	.30	: .35	Flax Seed, whole 180 lb bbls....ea	13.00	: 13.50	Horsetail Rush, bags.....lb	...	: .15
Cramp Bark, so-called bales....lb	...	: .08	Ground, 180 lb bbls.....lb	.07 1/4	: .08	India Gum, see Karaya		
True, bags.....lb	.44	: .45	Foenugreek Seed, 200 lb bags...lb	.07	: .07 1/4	INSECT FLOWERS, open whole		
Cranesbill Root, bags.....lb	.10	: .11	Fish Berries, 100-125 lb bags...lb	.03	: .03 1/4	bales.....lb	...	
CUBEB BERRIES, XX bags.....lb	.82 1/4	: .85	Fringe Tree Bark, bags.....lb	.19	: .20	Closed whole, bales.....lb	...	
Powdered, boxes.....lb	...	: .85	GALANGAL ROOT, bags.....lb	.06	: .06 1/4	Powdered, pure 200 lb bbls...lb	.57	: .60
Culvers Root, bags.....lb	.30	: .32	Gambier Gum, bags.....lb	.09 1/4	: .10	Flowers and stems, 50 p. e.		
Cumin Seed, Levant bags.....lb	...	: .27 1/4	Galbanum Gum, cases.....lb	1.20	: 1.35	200 lb bbls.....lb	.38	: .40
Morocco, bags.....lb	.24	: .27 1/4	Gamboge Gum, 160 lb cases...lb	1.08	: 1.10	Ipecac Root, Cartagena, bags...lb	1.75	: 1.80
Cuttlefish Bone, Trieste, straps...lb	...	: .16	Powdered, cases.....lb	1.12	: 1.15	Powdered, 200 lb bbls. boxes...lb	1.90	: 2.00
Jewellers, large, straps.....lb	...	: .55	Geisemum Root, bags.....lb	.11	: .11 1/4	Ho Whole, bags.....lb	1.75	: 1.85
Small, straps.....lb	...	: .35	Gentian Root, bags.....lb	.08 1/4	: .09	Isinglass, American, 130 lb cases...lb	1.95	: 2.00
French, straps.....lb	...	: .17	Ginger, African, bags.....lb	.13 1/4	: .14	Russian (Beluga) bxs, ctms...lb	5.50	: 7.50
Powdered, boxes.....lb	...	: .13	Jamaica, grinding, bags bbls...lb	.32	: .42	JABORANDI LEAVES, bales.....lb	.18	: .19
Broken, boxes.....lb	.07	: .07 1/4	Japan, bags.....lb	.14	: .14 1/4	Jalap Root, whole, 150 lb bags...lb	.31	: .35
Damar Gum, 136 lb cases.....lb	.32	: .4	Cochin, ABC & lemon, bags...lb	.15	: .15 1/4	Powdered, USP, 250 lb bbls...lb	.38	: .40
Damiana Leaves, bales.....lb	...	: .11	Ginseng Root, cultivated, bags...lb	8.00	: 10.00	Japan Wax, 224 lb cases.....lb	.15 1/4	: .16 1/4
Dandelion Root, Imp., bags.....lb	.20	: .21	Northwestern Wild, bags.....lb	14.00	: 15.00	Job's Tears, white bags.....lb	.08	: .09
Deer Tongue Leaves, bales.....lb	.09	: .10	Southern Wild, bags.....lb	10.00	: 12.00	Juniper Berries, 125 lb bags...lb	.03	: .03 1/4
Digitalis Leaves, bales.....lb	.07	: .08	Golden Seal Root, bags.....lb	3.50	: 3.55	KAMALA, boxes.....lb	1.90	: 2.00
Dill Seed, bags.....lb	.08 1/4	: .09	Powdered, boxes.....lb	3.75	: 3.85	Karaya Gum, powdered, bbls...lb	.15	: .20
			Grains of Paradise, bags.....lb	.12	: .14	Kava Kava Root, bags.....lb	.16	: .17
						Kino Gum, black cases.....lb	.50	: .55
						Kola Nuts, 150 lb bags.....lb	.05	: .06
						Kousoo Flowers, bags.....lb	...	: 4.00

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LADY SLIPPER ROOT, bags....lb	.51	: .55	Musk, pods Cabardine, tins....oz	16.00	: 17.00	Patchouli Leaves, bales.....lb	.22	: .25
Larkspur Seed, bags.....lb	.31	: .35	Tonquin.....oz	22.00	: 25.00	Pepper, black Sing. bags.....lb	.10½	: .10¾
Laurel Leaves, bales.....lb	.04¾	: .05	Grain Cab.....oz	25.00	: 26.00	White, bags.....lb	.13½	: .14
Lavender Flowers, Ordinary....lb	.20	: .25	Tonquin.....oz	35.00	: 38.00	Peppers, red Mombasa bags.....lb	.24	: .26
Selected.....lb	.30	: .34	Synthetic, see Chemicals			Cherries, bags.....lb	.15	: .15½
Leeches, tubs.....Per 100	7.00		Musk Root, Russian bags.....lb	...	...	Bombay, bags.....lb	.15	: .15½
Lemon Peel, bags.....lb	.09	: .10	Mustard Seed, Bari brown bags..lb	.08½	: .09	Japan, bags.....lb	.28	: .30
Licorice Root, Russian whole....lb	.07¾	: .08	Bombay, brown.....lb	.08½	: .09	Pennyroyal Herb, bales.....lb	.08	: .12
Spanish, natural bales.....lb	.09	: .09¾	California, brown.....lb	.08½	: .09	Peppermint Leaves, imp. bales..lb	...	: .35
Powdered, bbls.....lb	.10	: .11	Yellow.....lb	.08	: .09	Domestic leaf.....lb	.27	: .30
Selected, 2 & 5 lb bundles.....lb	.17	: .20	Chinese yellow.....lb	.04	: .04½	Peru Balsam, see Balsams	.23	: .25
Cuttings, 125 lb bags.....lb	.07¾	: .08	English, yellow.....lb	.08½	: .09	Pitch Leaves, bags.....lb	.04½	: .04¾
Life Everlasting Herbs, bales....lb	.05	: .08	Dutch, yellow.....lb	.08	: .08½	Pink Root, true bags.....lb	...	: 1.35
Lime Juice, clarified bbls.....gal	.50	: .60	Danish, yellow.....lb	.08½	: .09	Pitch, Burgundy, see Burgundy Pitch		
Linden Flowers, with leaves, baleslb	.16	: .18	Myrrh Gum, select 200 lb cs.....lb	.37	: .40	Pleurisy Root, bags.....lb	...	: .22
Without Leaves, bales.....lb	.32	: .35	Sorts, cases.....lb	.36	: .38	Plantain Leaves, bales.....lb	...	: .15
Liverwort Leaves, bales.....lb	.20	: .22	NUTGALLS, Chinese bags.....lb	...	...	Poke Berries, bags.....lb	...	: .15
Lobelia Herb, bales.....lb	.19	: .25	alfalfa, bags.....lb	.14	: .15	Poke Root, bags.....lb	...	: .07½
Lobelia Seed, bags.....lb	.55	: .60	Nutmegs, 110s cases.....lb	.22	: .22½	Pomegranate Bark, of root bags..lb	...	: .34
Lovage Root, Imported, bags.....lb	...	: .25	75s, 80s cases.....lb	.26	: .28	Of Fruit, bags.....lb	...	: .30
Lupulin, boxes.....lb	1.40	: 1.50	Nux Vomica Buttons, bags.....lb	.06	: .06½	Of tree.....lb	...	: .30
Domestic.....lb	1.30	: 1.40	Powdered, 200 lb bbls.....lb	.09	: .11	Poppy Flowers, red bags.....lb	.25	: .27
Lycopodium, 88 lb cs.....lb	.43	: .45	OAK BARK, red bags.....lb	.05	: .06	Poppy Seed, Dutch, bags.....lb	.09½	: .10½
MACE, Siam, No. 1 cases.....lb	.44	: .45	White, bags.....lb	.06	: .07	German, bags.....lb	...	: .10½
Banda, No. 1 cases.....lb	.50	: .52	Olibanum Gum, sift 280 lb cases..lb	.09½	: .10	Turkish, bags.....lb	.06	: .08
Batavia, cases.....lb	.38	: .39	Tears, 280 lb cases.....lb	.13	: .14	Blue Indian, bags.....lb	.08	: .08½
Malva Flowers, blue bales.....lb	.27	: .30	No. 1, all white, 280 lb cases	.21	: .22	White Indian, bags.....lb	.07	: .07½
Black, bales.....lb	.65	: .75	Opium, gum USP cases.....lb	...	: 8.00	Prickly Ash Bark Southern, bags..lb	.14	: .14½
Manna, large flake cases.....lb	.58	: .59	Granular, cans.....lb	...	: 9.00	Northern, bags.....lb	...	: .16
Small flake, cases.....lb	.28	: .30	Powdered, USP cans.....lb	...	: 1.00	Prickly Ash Berries, bags.....lb	.11	: .13
Sorts, cases.....lb	.27	: .30	Orange Flowers, cases.....lb	.07½	: .07¾	Prince's Pine, bales.....lb	.14	: .15
Mandrake Root, bags.....lb	.18	: .19	Orange Peel, bitter bags.....lb	.07½	: .08	Pulsatilla Herb, bags.....lb	.25	: .27
Mastic Gum, 120 lb cases.....lb	.65	: .70	Sweet, bags.....lb	.07½	: .08	Pumkin Seed, bags.....lb	.14	: .16
Mazoreon Bark, bags.....lb	.11	: .12	Orris Root Florentine bold bags..lb	.07	: .08	QUASSIA CHIPS, bags.....lb	.06½	: .07½
Matico Leaves, bales.....lb	.20	: .22	Verona, bags.....lb	.05	: .06	Queen of the Meadow Herb, bags..lb	...	: .06
Marjoram Leaves, German bales..lb	.17½	: .18	Powdered, 200 lb bbls.....lb	.07½	: .08	Quince Seed, bags.....lb	.95	: 1.20
French, bales.....lb	.13½	: .14½	Fingers, cases.....lb	.58	: .60	RAPE SEED, South Amer. bags..lb	.06½	: .07
Millet Seed, dom. yellow bags...lb	.03½	: .05	Ozokerite Wax, brown hard bags..lb	.22	: .24	Dutch, bags.....lb	.07	: .08½
Montan, Wax, crude bags.....lb	.04	: .04½	Green, hard bags.....lb	.25	: .26	Japanese, small, bags.....lb	.05½	: .06
Bleached.....lb	...	...	Refined, yellow bags.....lb	...	...	Raspberries, dried boxes.....lb	.56	: .60
Moss, Iceland bales.....lb	.08	: .09	PAPRIKA, bags.....lb	.17	: .22	Red Saunders.....lb	.17	: .19
Irish, bleached bales.....lb	.09	: .10	Hungarian.....lb	.27	: .37	Rhatany Root, bags.....lb	...	: .10
Mullein Flowers, tins.....lb	...	...	Pareira Brava Root, bags.....lb	.19	: .20	RHUBARB, H. D. cases.....lb	.43	: .45
			Parsley Seed, bags.....lb	.08	: .08½	Powdered, 200 lb bbls.....lb	.48	: .50
						Rosemary Leaves, bales.....lb	.04½	: .05



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Rosemary Flowers, cases bales...D	.28	: .30	Snake Root, Canada natural bags...D	.34	: .36	Tragacanth Gum, No. 1, ribbon, 200 lb. ca.D	1.50	: 1.55
Rose Petals, pale .....D	.22	: .25	Stidipped, bags .....D	...	: .35	No. 2 to No. 6, cases.....D	1.00	: 1.50
Red .....D	...	: .60	SOAP BARK, whole, 150-200 lb. bales.....D	.07½	: .08	Powdered, 50 lb. boxes.....D	1.00	: 1.50
Rue Herb, bales.....D	.30	: .35	Cut, 125-175 lb. bags.....D	.09	: .09½	Turkish, cases .....D	.75	: .90
SABADILLA SEED, bags.....D	.12	: .12½	Crushed, 200 lb. bbls.....D	.09½	: .10	Turmeric Root, Madras bags.....D	.10½	: .11
Powder, bbls.....D	.16	: .17	Powdered, 200 lb. bbls.....D	.12	: .14	Aleppy, bags .....D	.08½	: .09
Saffron Flowers, Amer. bales.....D	1.08	: 1.15	Spearmint Leaves, American bales...D	.23	: .24	China, bags .....D	.07	: .07½
Valencia, 1 lb. cans.....D	38.00	: 40.00	Spermaceti, blocks cakes cases.....D	.36	: .37	Turpentine, Venice, true 80 lb. ca. ....D	.20	: .22
Sage, Dalmatian bales.....D	.05	: .06½	Spikenard Root, bags.....D	.15	: .16	Artificial, 80 lb. cases.....D	.14	: .15
Greek, bales.....D	.04½	: .05½	Spruce Gum, boxes.....D	1.00	: 1.50	Spirits, see Naval Stores		
Spanish, bales.....D	.03	: .03½	Squaw Vine, bales.....D	...	: .17	UNICORN ROOT, false, see Helonias True, see Aletris		
Sandalwood, chips bags.....D	...	: .30	Stavesacre Seed, bags.....D	.28	: .29	Ura Ursi Leaves, bales.....D	.05½	: .06½
Ground, bags.....D	...	: .35	Stone Root, bags.....D	.09	: .10	VALERIAN ROOT, Belgian bags.....D	.10½	: .11
Sandarac Gum, 300 lb. bbls.....D	.20	: .23	Storax, liquid artif.....D	.70	: .75	Vanilla Beans Mex. whole cases...D	8.50	: 11.00
Sarsaparilla, Honduras, bales.....D	.61	: .65	Gen. USP .....D	.90	: 1.00	Cuts, cases.....D	6.00	: 6.50
Mexican, bales.....D	.34	: .35	St. Ignatius Beans, bags.....D	.22	: .23	Bourbon, cases.....D	4.50	: 4.75
Sassafras Bark, ordinary bales...D	.12	: .14	St. John's Bread, bags.....D	.04	: .06	South American, cases.....D	6.00	: 6.50
Select, bales.....D	.25	: .28	Stramonium Leaves, bales.....D	.07	: .07½	Tahiti, yellow label cases.....D	...	: ...
Savory Leaves, bales.....D	.08½	: .09½	Stramonium Seed, bags.....D	.12	: .13	Green Label, cases.....D	...	: ...
Saw Palmetto Berries, bags.....D	.09	: .10	Strophanthus Seed, Hispidus.....D	...	: ...	Violet Flowers, bags.....D	.65	: .70
Scammony Resin, boxes.....D	1.40	: 1.60	Kombe, bags.....D	.20	: .25	WAHOO BARK, of root bags.....D	.85	: .90
Scammony Root, bags.....D	.06½	: .07	Sunflower Seed, domestic bags.....D	.07	: .07½	Of Tree, bags.....D	.43	: .45
Senna Root, bags.....D	.60	: .62	South American, bags.....D	.06	: .07½	White Pine Bark, rosed, bags.....D	.06½	: .07½
SENNA, Alex. 150 lb. cases.....D	.30	: .31	TAGALDER BARK, bags.....D	...	: .05	White Poplar Bark, bags.....D	.04	: .05
Half Leaf, 350 lb. bales.....D	.17½	: .18	Tamarinds, bbls. ....D	...	: .06½	Wild Cherry Bark, thin green Rosed, bales.....D	.13	: .14
Siftings, 400 lb. bales.....D	.11	: .12	Keps .....per keg	...	: 3.50	Thick Rosed, bales.....D	.08	: .09
Powdered, 200 lb. bbls.....D	.12	: .13	Tansy Herb, bales.....D	.18	: .20	Thin Natural, bales.....D	10	: .11
Tinnevely, job, 350 lb. bbls.....D	.11	: .13	Tar, Barbadoes, 50 gal. bbls.....gal	1.60	: 1.75	Thick Natural, bales.....D	.06	: .08
Grinding, 350 lb. bales.....D	.05	: .08	Thus Gum, 280 lb. bbls.....D	...	: .05½	Willow, bark bags.....D	...	: .06
Powdered, 200 lb. bbls.....D	.08	: .08½	Thyme, Spanish bales.....D	.08	: .08½	White, bags.....D	...	: .15
Pods, 350 lb. bales.....D	.06	: .06½	French, bales.....D	.09½	: .10	Witch Hazel Bark, bags.....D	...	: .07
Serpentaria Root, bags.....D	.80	: .85	Tilla, See Linden			Witch Hazel Leaves, bales.....D	...	: .09
Sheilac, T.N., bags.....D	.54	: .55	Tolu Balsam, see Balsams			Worm Seed, American bags.....D	.09	: .10
Superfine Orange, bags.....D	.58	: .59	Tonga Bark, bags.....D	.30	: .31	Lavant bags.....D	3.50	: 3.75
D. C., bags.....D	...	: .80	Tonka Beans, Angostura, cases...D	2.00	: 2.10	Wormwood Herb, imported bales...D	...	: .10
V. S. O., cases.....D	...	: .80	Para, cases.....D	.80	: .85	Yacca Gum, red.....D	.04	: .04½
Pwd. res., 350 lb. bbls.....D	...	: .66	Surinam, cases.....D	.85	: .95	Ground.....D	.05½	: .06½
Regular Bleached, 350 lb. bbls...D	...	: .70				YELLOW DOCK ROOT, bags.....D	.12	: .14
Bone, Dry, 350 lb. bbls.....D	...	: .63				Yellow Parilla Root, bags.....D	.16	: .17
Simaruba Bark, bales.....D	.09	: .10				Yerba Santa, bags.....D	.10	: .11
Sideritis Herb, cut bags.....D	...	: .18				Zedoary Root, bags.....D	.08	: .10
Skullcap Leaves, bales.....D	...	: .38						
Sloe Berries, bags.....D	.03	: .04						

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Almond Bitter USP 5 lb. botz.....	lb	3.50	: 3.75
Bitter Fr FA 5 lb. botz.....	lb	3.50	: 3.75
Artificial, (See Benzaldehyde—Chemicals)			
Sass, 5 lb. cans.....	lb	.34	: .38
Peach Kernel, 5 lb. tins.....	lb	.24	: .25
Apricot, see Peach Kernel			
Amber, crude 25 lb. tins.....	lb	.70	: .75
Rectified, 25 lb. tins.....	lb	.80	: 1.00
Angelica Root, 1 lb bot.....	lb	\$8.00	: \$9.00
Seed, 1 lb bot.....	lb	\$6.00	: \$8.00
ANISE, Tech., 6 lb. case.....	lb	.45	: 47½
USP 50 lb tins.....	lb	52½	: 55
Ray, 25 lb tins.....	lb	2.50	: 2.60
Bergamot, 25 lb coppers.....	lb	2.65	: 2.85
Artificial, 25 lb cans.....	lb	2.00	: 2.25
Birch Tar, rect. 5 lb bot.....	lb	1.10	: 1.15
Crude, 50 lb tins.....	lb	.60	: .65
Bois de Rose, 25 lb tins.....	lb	2.50	: 2.65
Cado, USP 25 lb tins.....	lb	.35	: .40
USP 5 lb tins.....	lb	.45	: .50
Cajuput, native, 50 lb tins.....	lb	.80	: .85
Calamus, 5 lb bot.....	lb	4.25	: 4.75
Camphor, heavy, 1000 lb drums.....	lb	11½	: 12
Japanese, white, 72 lb cases.....	lb	12½	: 15
White, 1000 lb drums.....	lb	13½	: 15
Cassia, Native 25 lb tins.....	lb	2.25	: 2.50
Rectified, 25 lb tins.....	lb	2.50	: 2.75
Caraway, USP.....	lb	7.00	: 7.25
Cardamom, USP, 1 lb bot.....	lb	20.00	: 22.00
Carrot, 5 lb bot.....	lb	12.00	: 13.00
CASSIA, 75-80 p.c. 66 lb cases.....	lb	...	...
Redistilled, USP, 50 lb cans.....	lb	3.15	: 3.25
Cedar Leaf, 50 lb tins.....	lb	1.10	: 1.15
Cedar Wood, light 1000 lb drums.....	lb	.26	: .28
Celery, 1 lb bot.....	lb	8.50	: 9.00
Cinnamon, Ceylon 1 lb bot.....	lb	11.00	: 12.50
Leaf, 5 lb bot.....	lb	...	2.00
CITRONELLA, Ceylon, 1000 lb drs.....	lb	.72	: .75
USP 5 lb tins.....	lb	.74	: .75
Java, 400 lb drums.....	lb	...	.85
50 lb tins.....	lb	...	87½
Cloves, USP, 50 lb cans.....	lb	2.20	: 2.35
6 lb bot.....	lb	2.25	: 2.45

Sopoba, USP, 50 lb tins.	D	.35	: .40
Cordoba, USP, 1 lb bot.	D	6.00	: 18.00
Croton, USP, 25 lb tins.	D	1.00	: 1.10
Cubeba, USP, 50 lb bot.	D	6.00	: 6.35
Cumin, 1 lb bot.	D	15.00	: 20.00
Dill, 1 lb bot.	D	4.25	: 5.00
Erigeron, 20 lb tins.	D	.90	: 1.00
EUCALYPTUS, Austl. USP			
50 lb cs.	D	.48	: .50
500 lb drums	D	...	: .45
Fennel USP, 25 lb tins.	D	1.00	: 1.10
Geranium, Algerian, 25 lb tins.	D	8.00	: 8.50
American, 25 lb tins.	D	6.75	: 6.75
Turkish 25 lb tins.	D	4.75	: 5.00
Ginger, 1 lb bot.	D	5.75	: 6.00
Gingergrass, 25 lb tins.	D	2.75	: 3.00
Hemlock, 50 lb cans.	D	1.25	: 1.30
Juniper Berries, USP, 25 lb tins.	D	1.15	: 1.25
Wood, 50 lb tins.	D	.60	: .70
Lavender, USP, 28 lb tins.	D	2.40	: 2.60
Spike, Spanish, 50 lb cans.	D	.60	: .65
LEMON, Ital. USP, 25 lb tins.	D	.75	: .80
American, 25 lb tins.	D	.75	: .80
Lemongrass, native, 50 lb cans.	D	.80	: .85
Limes, express 25 lb tins.	D	1.70	: 1.80
Distilled, 25 lb tins.	D	.85	: .90
Linaloe, Mex. 80 lb cases.	D	2.15	: 2.35
Mace, distilled, 50 lb tins.	D	...	: .80
Mirbane, ref., see Ar. Chemicals			
Mustard, USP, 1 lb bot.	D	...	: 14.00
Artif., USP, 50 lb bot.	D	7.10	: 2.25
Neroli, Biscapare, $\frac{1}{2}$ and 1 lb bot.	D	25.00	: 25.00
Petalae, 1 lb bot.	D	99.00	: 115.00
Peppermint, USP, 50 lb tins.	D	10.00	: 25.00
Nutmeg, USP, 25 lb tins.	D	.90	: 1.00
Orange, bitter, 25 lb tins.	D	2.60	: 2.70
Sweet, W. Ind., 25 lb tins.	D	2.65	: 2.75
Italian, 25 lb cop.	D	3.75	: 4.00
American, 25 lb tins.	D	3.30	: 3.40
Origanum, 50 lb cans.	D	.30	: .35
Parsley, 1 lb bot.	D	3.50	: 4.00
Patchouli, 5 lb bot.	D	7.75	: 8.00
Pennyroyal, dom 25 lb tins.	D	1.95	: 2.25
Indian, 25 lb tins.	D	1.75	: 1.90
Imper., USP, 50 lb cases.	D	2.65	: 2.75
PEPPERMINT, USP, 60 lb cases.	D	2.90	: 3.00
Pett Grain, S. Am. 25 lb tins.	D	1.75	: 1.85
French, 1 lb bot.	D	6.50	: 7.00

Pimento, 25 lb tins.....	D	1.85	1.92
Pinus Sylvestris, 25 lb bot.....	D	...	1.75
Pumilio, USP, 50 lb case.....	D	...	2.75
Rose, Fr., 8, 16 & 32 oz. pkgs.....	oz	...	9.00
Rulg., 8, 16 & 32 oz. pkgs.....	oz	6.50	7.00
Artificial, 1 lb bot.....	D	2.00	3.00
Rosemary, USP, 27 1/2 lb tins.....	D	.40	.42
1000 lb drums.....	D	...	37 1/2
Tech., 27 1/2 lb tins.....	D	.35	.40
Rue, 1 lb bot.....	D	...	4.25
Sandalwood, E. Ind. USP, 76 lb cases.....	D	7.65	7.80
W. Indian, (Amrys) 25 lb tins.....	D	3.75	4.00
Sassafras, USP, 50 lb cans.....	D	1.00	1.19
Artificial, 60 lb cans, 1000 lb drs.....	D	...	.45
Savin, 5 lb tins.....	D	3.25	3.50
Spearmint, USP, 60 lb cases.....	D	2.50	2.60
Spruce, 50 lb tins.....	D	1.25	1.30
Styrac Amer., 20 lb tins.....	D	7.00	7.25
Tur, 50 gal hds.....	gal	.25	.28
Refined, USP 25 lb tins.....	D	...	...
Thyme, red, USP 25 lb tins.....	D	1.00	1.10
White, USP 25 lb tins.....	D	1.15	1.25
Cruel, 110 lb drums.....	D	.85	.90
Vetivert, Bourbon, 1 lb bot.....	D	5.50	6.00
Java, 1 lb bot.....	D	22.00	24.00
Wine, heavy 1 lb bot.....	D	...	2.75
WINTERGREEN.			
Sweet chn., 25 lb tins.....	D	2.00	3.00
Galathea, true 25 lb tins.....	D	4.00	7.00
Synther, USP 50 lb cases.....	D	...	.55
Wormseed Rait., USP, 25 lb tins.....	D	7.00	7.25
Wormwood, com., 25 lb tins.....	D	6.50	6.75
Ylang Ylang, Bourbon 10 lb. tins.....	D	...	...
No. 1.....	D	7.00	9.00
No. 2.....	D	5.00	6.00
Manila, 1 lb bot.....	D	30.00	40.00
Artificial, 1 lb bot.....	D	10.00	12.00
OLEORESINS			
Aspidium, USP, 1 lb bot.....	D	2.75	3.00
Capicum, USP, 5 lb bot.....	D	2.50	.75
Cubeb, USP, 5 lb bot.....	D	7.75	5.80
Ginger, 5 lb bot.....	D	3.00	3.10
Maferese. See Aspidium			
Orris, 1 lb bot.....	D	...	18.00
Pepper, black, USP, 1 lb bot.....	D	3.50	4.00
Vanilla, 1 lb bot.....	D	9.50	10.00

WORKS:
ELIZABETH, N. I.

NEW YORK

Aromatic Chemicals

NATURAL DERIVATIVES			
Anethol, 25 lb bot.....	1.60	:	2.00
Borneol, 1 lb bot.....		:	3.50
Citronellal, 1 lb bot.....	2.00	:	2.25
CITRAL, 25 lb cans.....	2.75	:	3.00
EUCALYPTOL, USP, 25 lb cans.....	.75	:	.80
Eugenol, USP, 25 lb cans.....	2.85	:	3.25
Geraniol, Domestic, 50 lb cans.....	3.00	:	3.50
Imported, 5 lb bot.....	4.50	:	5.00
Iso-Eugenol, 1 lb bot.....	4.50	:	5.00
Imported.....	6.50	:	7.00
Linalool, 5 lb bot.....	7.00	:	7.25
MENTHOL, 60 lb cases.....	9.75	:	10.00
Less cases, 5 lb cans.....	10.00	:	10.25
Rhodinol, 1 lb bot.....	15.00	:	20.00
SAFROL, 60 lb cans.....	.55	:	.57
Thymol, USP, 10 lb cans.....	3.25	:	3.50

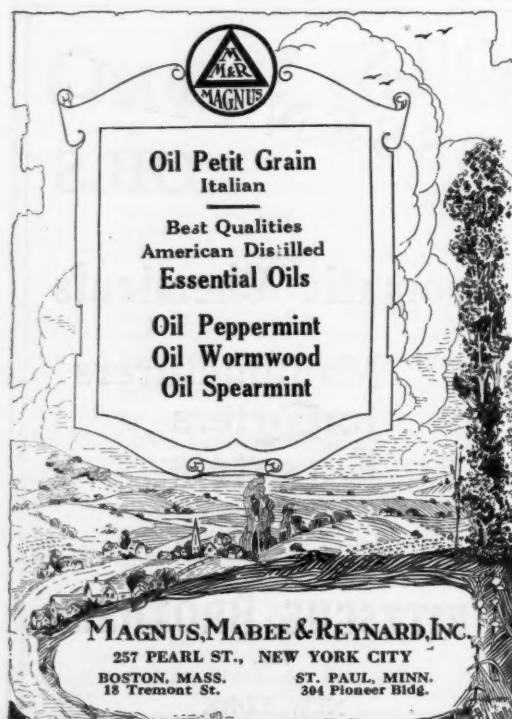
SYNTHETIC AROMATICS			
Acetaldehyde, 50% sol pure, 5 lb bot. lb	1.75	:	2.00
Acetophenone CP, 1 lb bot.....	4.00	:	4.25
Amyl Acetate, pure, 5 gal cans gal	7.00	:	8.00
Amyl Butyrate, 1 lb bot.....	2.00	:	2.10
Amyl Formate, 1 lb bot.....	3.00	:	3.25
AMYL SALICYLATE, 100 lb chys lb	1.45	:	1.60
Anisaldehyde, 1 lb bot.....	3.75	:	4.50
BENZALDEHYDE, USP, 40 lb chys lb	1.50	:	1.60
FFC, 40 lb chys.....	1.75	:	1.85
Benzic Ether, See Ethyl Benzoate			
Benzyl Acetate, 100 lb chys.....	1.40	:	1.50
Benzyl Alcohol, 5 lb bot.....	1.60	:	1.70
BENZYL BENZOATE, 5 lb bot.....	1.60	:	1.75
Medicinal FFC.....	1.75	:	2.00
Benzyl Formate, 1 lb bot.....	5.00	:	3.25
Brometylrol, 25 lb kgs.....	4.00	:	4.25
Butyric Ether, See Ethyl Butyrate			
Cinnamic Acid, 5 lb cans.....	3.00	:	3.25
Cinnamic Alcohol, liquid 1 lb bot. lb	12.00	:	16.00
Crystallizable.....	16.00	:	18.00


Cinnamic Aldehyde, 1 lb bot.....	3.20	:	3.50
CITRONELLOL, 1 lb bot.....	8.00	:	14.00
COUMARIN, 25 lb cans.....	4.50	:	4.75
DIETHYL PHTHALATE, 25 lb cans lb	.55	:	.60
Diphenyl oxide, 25 lb tins.....	.85	:	.90
Ethyl Acetate, pure, 5 lb bot.....	.45	:	.50
Ethyl Benzoate, 5 lb bot.....	1.85	:	2.00
Ethyl Butyrate, 5 lb bot.....	2.00	:	2.25
Ethyl Cinnamate, 1 lb bot.....	3.75	:	4.00
Ethyl Formate, 5 lb bot.....	2.00	:	2.10
Ethyl Valerate, 5 lb bot.....	4.50	:	4.75
Formic Ether, See Ethyl Formate			
Geranyl Acetate, 1 lb bot.....	4.25	:	4.75
Hellotropin, dom., 10 lb bot.....	2.00	:	2.25
Imported.....	2.50	:	2.75
Indol, CP, 1 oz bot.....	8.50	:	9.00
Ionone, 1 lb bot.....	5.00	:	9.00
Alpha.....	10.00	:	12.00
Beta.....	9.00	:	11.00
Methyl.....	12.50	:	15.00
Linalyl Acetate, 1 lb bot.....	7.00	:	10.00
Linalyl Benzoate, 1 lb bot.....	13.00	:	14.00

METHYL ANTHRANILATE dom., 1 lb bot.....	3.50	:	4.00
Imported.....	4.50	:	5.00
Methyl Cinnamate, 1 lb bot.....	3.75	:	4.00
Methyl Paracresol, 1 lb bot.....	8.00	:	9.00
METHYL SALICYLATE, USP 500 lb drums.....		:	.55
50 lb cases.....		:	.57
Second Hands.....	.50	:	.52
Mirbane, rect. 1000 lb drums.....	.12 1/2	:	.14
Musk Ambrette, 1 lb cans.....	13.00	:	15.00
Musk Ketone, 1 lb cans.....	12.00	:	13.00
Musk Xylene, 5 lb cans.....	2.90	:	3.15
Nerolin, 1 lb cans.....	1.65	:	2.00
Oenanthalic Ether, 5 lb bot.....	1.25	:	1.50
Phenylacetaldehyde, Dom., 1 lb bot.....	9.00	:	11.00
Imported.....	12.00	:	14.00
Phenylacetic Acid, 1 lb bot.....	3.00	:	3.25
PHENYLETHYLALCOHOL dom., 1 lb bot.....	8.00	:	9.00
Imported.....	8.50	:	10.00

Phenylpropylalcohol, 1 lb bot.....	15.00	:	16.00
TERPINEOL, CP, 1000 lb drums lb	.52	:	.55
Cans 50 lb.....	.57	:	.60
Imported, 25 lb cans.....	.95	:	1.20
Terpinyl Acetate, 25 lb cans.....	1.65	:	1.85
VANILLIN, USP, 400 oz. cans. oz	.40	:	.40 1/2
Cans, 16 oz., 80 oz.....	.40 1/2	:	.41 1/2
Valerianic Ether, See Ethyl Valerate			
Yara Yara, 1 lb cans.....	1.75	:	2.00

PERFUMERS' SUNDRIES			
Almond Meal, 25 lb cans.....	.28	:	.30
Ambergris, black, bxs.....		:	8.00
Ambergris, gray, bxs.....		:	28.00
Balsam Copaiba, Para, 80 lb cases lb	.23	:	.24
South American, 80 lb cases.....	.23	:	.29
Balsam Peru, 120 lb cases.....	1.75	:	1.80
Balsam Tolu, 90 lb cases.....	1.35	:	1.50
Benzoin Gum, Siam, bxs.....	1.15	:	1.20
Castoreum, 1 lb bot.....	4.00	:	4.50
Chalk, precip. light, 175 lb bbls lb	.04 1/2	:	.05
Cherry Laurel Water, 5 gal cans gal	1.15	:	1.25
Civet Abyssin, horns.....	2.75	:	3.75
Labdanum, 5 lb bot.....		:	8.00
Lanolin hydrous, 350 lb bbls lb	.21	:	.22
Anhydrous, 350 lb bbls.....	.23	:	.24
Musk pods, Cabardine, tins.....	16.00	:	17.00
Tonquin, tins.....	22.00	:	25.00
Grains, Cabardine, tins.....	25.00	:	26.00
Tonquin, tins.....	35.00	:	38.00
Synthetic, See Aromatic Chemicals			
Orris Rt. Flor., powd. bbls.....	.09	:	.11
Verona, bbls.....	.08	:	.09
Petrolatum, snow white, 350 lb bbls lb		:	.12 1/2
Light Amber, 350 lb bbls.....	.04	:	.04 1/2
Rice Starch, 140 lb bgs.....	.09	:	.10
Rose Water, 5 gal chys.....	.90	:	1.10
Sandalwood chips, powd., bags.....	.30	:	.35
Saponin, 5 lb tins.....	1.25	:	1.50
Talc Italian, 220 lb bgs.....	42.00	:	55.00
Talc French, 220 lb bags.....	32.00	:	45.00
Talc, domestic ref., 100 lb bags.....	20.00	:	30.00




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ALCOHOL—235 bbls., C. Esteve, Arecibo; 25 bbls., M. Feigel & Bros., Arecibo; 50 bbls., C. Esteve, Arecibo

ALOES—200 cs., Selma Merc. Co., Curacao

AMMONIUM SALTS—**Muriate**, 49 pgs., Brown Bros. & Co., Liverpool

ANTIMONY—280 bgs., F. A. Cundill & Co., Hankow; **Oxide**, 250 bgs., Order, Changsha

ARSENIC—200 cks., Ore & Chem. Corp., Hamburg; 67 drs., Order, Beira; **Sulfide**, 20 kgs., Order, London

BALSAM—5 cs., Dodge & Olcott, London; 137 cs., Order, Para; 24 cs., G. Amsinck & Co., Valparaiso; 20 cs., Ultramares Corp., Valparaiso

BARK—Dogwood Root, 24 bgs., F. B. Vandegriff & Co., Port Antonio

BRONZE POWDER—21 cs., Davies Turner & Co., Bremen

CALCIUM—**Arsenate**, 300 cks., Order, Hamburg

CAMPHOR—100 cs., A. Ochse Co., Hamburg

CAPSICUMS—648 bgs., Amer. Exch. Nat. Bk., Coconado

CASEIN—332 cs., Martin Cantine Co., Bordeaux; 110 sks., N. Y. Trust Co., Bordeaux; 170 bgs., E. B. Muns, St. Nazaire; 1,619 bgs., Order, Buenos Aires; 834 bgs., Order, Buenos Aires; 267 sks., Equit. Trust Co., Auckland

CHEMICALS—100 cks., Pomeroy & Fischer, Marseilles; 2 cs., Sagamore Chem. Co., Hamburg; 216 cks., Jungmann & Co., Hamburg; 45 bbls., Unexcelled Mfg. Co., Hamburg; 30 bbls., Hummel & Robinson, Hamburg; 50 bbls., A. J. Marcus, Hamburg; 564 bbls., Roessler & Hasslacher, Hamburg; 276 cks., Pfaltz & Bauer, Bremen

CITRATE OF MAGNESIA—210 cs., Order, Genoa

COCHINEAL—30 bgs., Bk. of British W. Africa, Liverpool

COCOA BUTTER—100 bls., Daarnhower & Co., Hamburg

COLORS—1 cse., P. C. Kuyper & Co., Hamburg; 13 cks., Geigy Co., Havre; 4 cks., Franklin Imp. & Exp. Co., Hamburg; 4 cks., Kuttroff Pickhardt & Co., Hamburg;

124 cyl., Sandoz Chem. Wks., Havre; 4 cs., B. F. Drakenfeld & Co., Havre; 3 cks., Utility Access Corp., Havre; 21 cks., Reichard Coulston, Havre; 16 cs., R. F. Downing & Co., London; 4 cs., Order, London; 2 cks., Kuttroff Pickhardt Co., Hamburg; 10 cks., Earle & Co., Hamburg; 4 cks., H. A. Metz, Hamburg; 2 cks., A. H. Mayer, Hamburg; 40 casks, Irving Bank, Genoa; 5 cks., Order, Genoa; **Coal Tar**, 1 ck., H. A. Metz & Co., Hamburg; 5 cs., F. C. Atteaux & Co., Hamburg; 35 cks., Ciba Co., Hamburg; 13 cks., H. A. Metz & Co., Rotterdam; 16 cks., Textile Alliance, Inc., Rotterdam; **Earth**, 15 cks., L. H. Butcher Co., Bremen; 19 cks., Reichard Coulston, Inc., Hamburg; 4 bbls., A. Hurst & Co., Hamburg; 35 cs., Fezandie & Sperle, Bremen;

COPPER—**Cyanide**, 3 cks., Order, London; **Vitriol**, 1 cse., Eimer & Amend, Homburg

COPRA—453 bgs., Franklin Baker & Co., Port Antonio

CUTTLEFISH BONE—52 cs., Order, Bordeaux

DIVI DIVI—517 bgs., Eggers & Heinlein, Pampatar

DRUGS—30 bls., Peek & Velsor, Havre; 7 cs., Neother Prod. Co., Genoa

EARTH—250 bgs., Reichard Coulston, Leghorn; 15 cks., P. Uhlich & Co., Leghorn;

Infusorial, 524 bgs., Junovici & Co., Leghorn; **Sienna**, 56 cks., J. L. Smith & Co., Genoa

EPSOM SALTS—800 bgs., E. Suter & Co., Bremen

EXTRACTS—**Quebracho**, 3,020 bgs., Order, Buenos Aires; 1,060 bgs., N. Y. Trust Co., Buenos Aires; 2,038 bgs., Guaranty Trust Co., Buenos Aires; 1,803 bgs., Kidder Peabody & Co., Buenos Aires; 39,406 bgs., Tannin Corp., Buenos Aires; 5,090 bgs., Order, Buenos Aires; 9,109 bgs., Tannin Corp., Buenos Aires

FERRO SILICON—16 cks., Order, Genoa

FLOWERS—25 bls., Anderson, Hillier Co., Hamburg; **Chrysanthemum**, 32 bls., Amer. Exch. Nat. Bank, Trieste

GAMBIER—256 cs., L. Littlejohn & Co., Singapore

GELATIN—161 bbls., H. A. Sinclair, Rotterdam; 23 cks., Globe Shpg. Co., Hamburg; 32 cs., Amer. Exp. Co., Bremen



GLAUBER SALT—105 cks., Bengol Tdg. Co., Hamburg

GLUE—40 bgs., Order, Genoa; 200 bgs., G. B. Hewitt Bros., Havre; 60 bgs., Bernard Judae & Co., Hamburg; 20 bgs., C. B. Hewitt & Bros., Liverpool; 400 sks., W. R. Grace & Co., Valparaiso

GLYCERIN—41 drs., Braz. Merc. Co., Rio de Janeiro

GREASE—63 cks., Pfaltz & Bauer, Bremen

GUMS—44 cs., Davies Turner & Co., Marseilles; 154 sks., Chartered Bk. of India, Aust. & China, Manila; 55 bgs., Order, Liverpool; **Chicle**, 212 bgs., Chicle Dev.



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HELIOTROPIN—4 cs., Order, Hamburg

HERBS—57 bbls., Peck & Velsor, Hamburg; 5 bbls., Order, Trieste; 5 bbls., Amer. Exp. Co., Hamburg; 1 cse., A. Bentkamp, Southampton; *Euphorbia Pifillifera*, 35 bbls., Order, Bombay

HOPS—10 cs., J. Sonnenschein Hop Co., Hamburg; 46 bbls., Hensel Bruckman & Lorbacher, Bremen

IODINE—40 bbls., Nash Watjens & Bangs, Valparaiso; 35 kegs, W. R. Grace & Co., Iquique; 256 kegs, W. R. Grace & Co., Antofagasta

IRON CHLORIDE—40 drs., Trumpy Faesy & Besthoff, Dundee

IRON OXIDE—400 bbls., Hummel & Robinson, Malaga; 69 bbls., C. K. Williams & Co., Malaga; 300 bbls., C. J. Osborn & Co., Malaga; 240 bbls., J. M. Rabossa, Malaga; 40 bbls., C. E. Chrystal, Malaga; 176 bbls., Reichard Coulston, Malaga; 157 bbls., E. M. & F. Waldo, Malaga; 79 bbls., Smith Chem. & Color Co., Malaga; *Sulfate*, 283 cks., E. M. Sergeant & Co., Hamburg; 70 cks., Order, Hamburg

JUNIPER BERRIES—117 bgs., Order, Leghorn

KATANOL—9 cks., Kuttroff Pickhardt & Co., Hamburg

LEAVES—5 bbls., Davies Turner & Co., Marseilles; *Belladonna*, 10 bbls., Order, Leghorn;

Buchu, 5 bbls., Order, Southampton; *Coco*, 62 bbls., Maywood Chem. Wks., Valparaiso; *Laurel*, 200 bbls., Order, Leghorn; *Patchouli*, 38 bbls., Brown Bros., Penang; *Sage*, 24 bbls., Order, Trieste; *Senna*, 12 bbls., Boyer & Bartlett, Suez; 51 bbls., Chase Nat. Bank, Suez; *Thyme*, 108 bbls., Armand Gaidan Co., Marseilles

LICORICE—20 cs., Order, Marseilles; *Cuttings*, 110 sks., McLaughlin Gormley & King, Marseilles; *Juice*, 5 cs., Order, Catania

LIME JUICE—600 cs., I. P. Smith & Co., London; 18 cks., Park Benziger & Co., Santa Lucia; 5 cks., Middleton & Co., Martinique; 70 cks., F. B. Vandegrift & Co., Dominica; 20 cks., Order, Dominica; 70 cks., F. B. Vandegrift & Co., Dominica; 5 cks., Planters Produce Co., Dominica; 5 cks., Planters Produce Co., Dominica; 70 cks., F. B. Vandegrift & Co., Dominica

LYCOPodium—11 cs., Asia Drug Co., Hamburg

MAGNESITE—313 bgs., Speiden Whitfield & Co., Rotterdam; *Calcined*, 623 bgs., Innes Speiden & Co., Rotterdam

MANURE SALT—3,800 bgs., Order, Hamturg

MENTHOL—5 cs., Standard Bk. So. Af., Southampton; 25 cs., Hetherman & Co., Vancouver

MYROBALANS—4,990 pkts., Order, Calcutta; 2,000 pkts., Nat. City Bk., Calcutta; 50,972 pkts., Order, Bombay; 6,183 pkts., Nat. City Bk., Calcutta; 3,049 pkts., Standard Bk. S. A., Calcutta; 2,900 pkts., Standard Bk. of S. A., Calcutta

NAPHTHALENE—1,000 bgs., Order, Middlesbrough; 1,100 bgs., Order, London; 688 dble. bgs., Lunham & Moore, Rotterdam

NUX VOMICA—160 bgs., Volkart Bros., Coconado

OCHRE—181 cks., Reichard Coulston, Inc., Marseilles; 70 cks., C. F. Gledhill & Co., Marseilles; 120 cks., J. L. Smith & Co., Marseilles; 30 cks., C. H. Coulier & Co., Marseilles

OILS—Coconut, 500 tons, Spencer Kellogg & Sons, Manila; *Castor*, 115 cks., Order, Coconado; *Cod*, 125 cks., R. Badcock & Co., St. Johns; 130 cks., R. Badcock & Co., St. Johns; *Codliver*, 25 bbls., Lanman & Kemp, Rotterdam; 30 cks., Nat. Oil Prod. Co.,

St. Johns; *Mineral*, 11 cs., Sharpless Spec., Havre; *Olive*, 250 cs., East River Nat. Bk., Malaga; 150 cs., Equitable Trust Co., Malaga; 1,000 cs., Order, Leghorn; 200 cs., Irving Bank, Malaga; 100 bbls., Lazard Freres, Malaga; 100 cs., East River Nat. Bank, Malaga; 103 cs., Order, Palermo; 615 cs., Parodi Erimio & Co., Genoa; 350 cs., Amer. Exp. Co., Leghorn; 1,000 cs., Order, Leghorn; 100 cs., A. Prota, Genoa; 165 cs., J. Petrocelli, Genoa; 100 cs., Bernicchi Bros. & Andrucci, Genoa; 3,525 cs., Order, Genoa; 100 cs., Ital. Discount & Trust Co., Genoa; 510 cs., P. Pastene & Co., Genoa; 550 cs., Order, Genoa; *Palm*, 127 cks., F. Drew & Co., Liverpool; 20 cks., Order, Liverpool; *Sulfur*, 275 bbls., Order, Naples

OILS, ESSENTIAL—5 cs., Davies Turner & Co., Marseilles; 2 cs., Dodge & Olcott, London; 1 cse., Guaranty Trust Co., Southampton; 14 cs., Fritzsche Bros., Hamburg; 6 cs., Polaks Frutal Wks., Rotterdam; 2 cs., Orbis Prod. Tdg. Co., Havre; 5 cs., Roure Bertrand, Havre; 4 cs., Gallagher & Ascher, Naples; 3 drs., Export S. S. Corp., Alexandria; 82 cs., J. W. Lyon & Co., Messina; *Anise*, 8 drs., Magnus Mabec & Reynard, Hongkong; *Bay*, 9 cs., R. Moellhausen, Santa Lucia; 5 hlf cs., Huth Gillespie & Co., Dominica; 3 bbls., R. Moellhausen, Guadeloupe; *Cinnamon Leaf*, 2 drs., J. W. Greene & Co., Colombo; *Citronella*, 20 drs., Brown Bros. & Co., Colombo; 3 drs., C. T. Wilson & Co., Colombo; 15 drs., Schulz & Ruckgaber, Colombo; 5 drs., Goldman Sachs & Co., Colombo; 8 drs., J. W. Greene & Co., Colombo; 48 drs., Amer. Exch. Nat. Bank, Colombo; 6 drs., Order, Colombo; *Eucalyptus*, 12 drs., Dodge & Olcott, Sydney; 50 cs., J. B. Horner & Co., Melbourne; 100 cs., G. Lueders & Co., Melbourne; 26 drs., Dodge & Olcott, Melbourne; 20 drs., Order, Melbourne; *Fusel*, 15 drs., Order, Rotterdam; 2 cks., Maas & Waldstein Co., Marseilles; *Geranium*, 6 cks., Davies Turner & Co., Marseilles; 2 cks., J. Manheimer, Marseilles; 2 cks., Amer. Exp. Co., Marseilles; 4 cks., Order, Marseilles; *Lemon*, 100 cs., Order, Messina; 302 cs., Order, Constantinople; *Lemongrass*, 7*dr., Order, Cochín; *Lime*, Distilled, 4 carboys, Park

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PLUMBAGO—375 bbls., Irving Bank, Colombo; 250 bbls., Order, Colombo; 100 bgs., Order, Colombo

POTASSIUM SALTS—Caustic, 540 bbls., Roessler & Hasslacher, Hamburg; **Chlorate**, 3,000 bbls., Order, Hamburg; **Muriate**, 3,000 bgs., Potash Impgt. Corp., Bremerhaven; 12,000 bgs., Order, Hamburg; 1,997 bgs., Potash Impgt. Corp., Bremen; 15,000 bgs., Potash Impgt. Corp., Bremen; **Permanganate**, 100 cks., Roessler & Hasslacher Chem. Co., Hamburg; **Sulfate**, 11,000 bgs., Potash Impgt. Corp. of Amer., Bremerhaven; 1,000 bgs., Order, Hamburg

POTATO STARCH—2,000 bgs., Stein Hall & Co., Rotterdam; 200 bgs., Order, Rotterdam

PYRIDINE—12 drs., Order, Liverpool

QUICKSILVER—300 flasks, Order, Leghorn; 300 flasks, Order, Leghorn

RED OXIDE—6 cks., S. Doggett, Liverpool

ROOTS—30 bls., Parke Davis & Co., Havre; 3 bls., Anderson Hillier Co., Hamburg; 23 bls., Order, Trieste; **Orris**, 77 bgs., Brown Bros. & Co., Leghorn; **Sarsaparilla**, 50 bls., D. L. Bretzfelder & Bro., Tampico; 20 bls., H. Triest & Co., Tampico

SALT—560 sks., W. A. Hazard & Co., Liverpool

SEAWEED—50 bls., Innis Speiden Co., Havre

SEEDS—23 bgs., Peck & Velsor, Hamburg; **Alfalfa**, 455 bgs., Bk. of N. Y. & Trust Co., Buenos Aires; 226 bgs., Nat. City Bk., Buenos Aires; 451 bgs., Mech. & Metals Nat. Bk., Buenos Aires; 455 bgs., Order, Buenos Aires; **Cardamom**, 34 cs., Brown Bros. & Co., Colombo; **Castor**, 8,245 bgs., Volkart Bros., Coconado; **Cumin**, 200 bgs., Order, Bombay; **Fennel**, 115 cs., Order, Palermo; **Flax**, 7,826 bgs., Order, Calcutta; 53,937 bgs., Order, Buenos Aires; 50,832 bgs., Spencer Kellogg & Sons, Rosario; **Lucerne**, 282 bls., Order, Southampton

SHELLAC—2,257 bgs., Order, Calcutta; 256 bgs., Bank of Montreal, Calcutta; 15 bgs., First Federal Foreign Bkg. Corp., Calcutta; 225 bgs., Brown Bros. & Co., Calcutta; 900 bgs., Chase Nat. Bank, Calcutta; 100 bgs., Order, Calcutta; 100 bgs., London & Liverpool Bk. Commerce, Calcutta; 100 bgs., A. Helmrath, Calcutta; **Garnet**, 200 bgs., Brown Bros. & Co., Calcutta; **Sticklac**, 178 cs., Order, Bangkok; 100 cs., Order, Calcutta

SILVER—**Sulfide**, 5 cs., Markt & Schaeffer, Valparaiso; 2 cs., G. Amsinck & Co., Valparaiso; 3 cs., Wessel Duval & Co., Valparaiso

SODIUM SALTS—Carbonate, 10 cks., 1 cse., Brown Bros. & Co., Liverpool; **Chlorate**, 200 bbls., Order, Hamburg; **Cyanide**, 222 cs., Meteor Prod. Co., Havre; **Nitrate**, 11,192 bgs., Antony Gibbs & Co., Valparaiso; 16,850 bgs., W. R. Grace & Co., Iquique; **Silico Fluoride**, 250 dbles. bgs., Farmers Loan & Trust Co., Rotterdam; **Sulfite**, 150 bxs., C. S. Grant & Co., Hamburg

SUMAC—Ground, 700 bgs., R. Neuman & Co., Palermo; 350 bgs., Order, Palermo

TALC—500 bgs., C. Mathieu, Genoa; 200 bgs., Kountze Bros., Genoa; 500 bgs., Parfume de Lux Co., Genoa; 600 bgs., C. Mathieu, Genoa; 300 bgs., Ital. Discount & Trust Co., Genoa; 200 bgs., Order, Genoa; 200 bgs., Ital. Disc. & Trust Co., Genoa; 900 bgs., C. Mathieu, Genoa; 200 bgs., Hammill & Gillespie, Genoa; 500 bgs., Bankers Trust Co., Genoa

TARTAR—220 bgs., C. Pfizer & Co., Marseilles; 351 bgs., Royal Baking Powder Co., Oran; 127 bgs., C. Pfizer & Co., Valencia; 820 bgs., Tartar Chem. Wks., Valencia; 594 bgs., Tartar Chem. Wks., Oran; **Cream**, 100 cks., Brown Bros. & Co., Marseilles; 50 pkgs., Order, Leghorn

TURMERIC—202 bgs., Order, Cochín

ULTRAMARINE—20 cs., Columbian S. S. Co., Marseilles; 16 cks., Fezandie & Sperrle, Liverpool

VANILLA BEANS—60 cs., Dodge & Olcott, Marseilles; 8 cs., Davies Turner Co., Marseilles; 47 cs., Order, Marseilles; 9 cs., Order, Marseilles

WAX—10 bgs., Curacao Trdg. Co., Santo Domingo; 16 bgs., Yglesias & Co., Sanchez; 2 bgs., Yglesias & Co., Puerto Plata; 9 bgs., J. J. Julia & Co., Monte Cristi; 40 cs., L. A. Salomon & Bro., Havre; 32 cs., Asiatic Petroleum Co., Puerto Mexico; 54 bbls., De Lima Correa & Cortisoz, Valparaiso; **Bees**, 89 sks., Duncan Fox & Co., Valparaiso; 5 bgs., Cordillera Comm. Co., Puerto Plata; 6 bgs., R. Fabian & Co., Manzanillo; 5 bgs., T. J. Owen & Co., Santiago; 50 cs., Guaranty Trust Co., Hamburg; 12 bgs., Order, Leghorn; 75 cs., Order, Rotterdam; **Mineral**, 63 bgs., L. S. Tainster, Hamburg

WOODFLOUR—393 bgs., A. Kramer & Co., Hamburg

U. S. Gypsum Co., Chicago, will build a plant at Sweetwater, Tex. for manufacture of plaster of paris, cement and other gypsum products to cost approximately \$1,000,000, according to G. W. Rathgens, assistant chief engineer. A large acreage of gypsum deposits has been purchased, and a railway will be built to afford transportation of the raw material.

Thatcher Manufacturing Co., Elmira, N. Y., will fight Federal Trade Commission's order to dispose of its holdings in Essex Glass Co., Mount Vernon, O., Travis Glass Co., Clarksburg, W. Va., Lockport Glass Co., Lockport, N. Y., and the Woodbury Glass Co., Winchester, Ind. The Commission alleges a monopoly of the milk bottle business.

LACTIC ACID IN LEATHER TANNING

LACTIC ACID is becoming more and more an important factor in leather manufacture, by reason of its function in producing better leather, more efficiently and more economically.

Du Pont Lactic Acid, for leather manufacture, is the result of research and experimental work in meeting the requirements of the leather manufacturer. It is of a uniform high quality and produces uniform results.

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Write for booklet "Lactic Acid in Leather Tanning."



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BUSINESS OPPORTUNITIES

PARTY VERSED in Crude Drugs, can purchase old established business of highest reputation. \$15,000 proposition. Reason for selling—advanced age. Address "Botany 374," **DRUG & CHEMICAL MARKETS.**

SPANISH HOUSE desires to connect with American concerns exporting specific drugs, proprietaries, pharmaceuticals, etc. Send price lists, descriptive booklets to Box 376, **DRUG & CHEMICAL MARKETS.**

\$10,000 TO INVEST—I am prepared to invest up to \$10,000 for the manufacture or importation of pharmaceutical or industrial chemical products possessing genuine and exceptional merit; preference given to those of a semi or non-competitive character; all communications will be held strictly confidential. Box 395, **DRUG & CHEMICAL MARKETS.**

COME WEST—An established chemical dealer, controlling four desirable exclusive sales agencies for whole Pacific Coast, will sell half interest to a working partner at book valuation, 1922 business, to yield 12% net profit. Cash required \$25,000, balance on time or for services. Business is growing and can be much extended by more capital and hard work. Highest references expected and furnished. Box 393, **DRUG & CHEMICAL MARKETS.**

BUSINESS OPPORTUNITIES

SELLING AGENTS desiring to get in touch with manufacturers and manufacturers desiring to get in touch with selling agents—try a want ad on these pages. **DRUG & CHEMICAL MARKETS** is read all over the world.

ESTABLISHED TOILET GOODS BUSINESS founded in 1878. Permit for 200 barrels Denatured Alcohol for sale. Full details and information will be furnished to inquirers who desire to make an appointment to visit plant. Box 387, **DRUG & CHEMICAL MARKETS.**

IF YOU MANUFACTURE Products used in the paint, varnish, printing ink, paper, rubber, soap or other industries, and which could be distributed in the State of Ohio, Address Box 389, **DRUG & CHEMICAL MARKETS.**

SITUATIONS WANTED

AMERICAN CHEMIST with seven years experience in coal-tar intermediates, dyestuffs and rubber accelerators; capable of conducting research and experienced in plant management is open for an engagement with an established firm that has an opening and that offers a real opportunity for ability and hard work. Box 378, **DRUG & CHEMICAL MARKETS.**

PRACTICAL DYEING MAN—With ten years experience in a commercial dye house, in the purchasing office, stores and supply department, seeks position in the textile industry, or as a salesman of dyestuffs. Box 396, **DRUG & CHEMICAL MARKETS.**

SITUATIONS WANTED

I AM a native-born American, 34 years old and in good health, married, University graduate, eleven years in the chemical industry with two firms, and I can sell. I am busy and happy; but I must make a better opportunity to earn more money. I am willing to tackle a big job which I believe I can do well for a share of the net profits without salary or drawing account. Box 394, **DRUG & CHEMICAL MARKETS.**

EXPERIENCED CHEMIST desires permanent position. Analytical and research work, rubber, oils, dyes, etc. Will go anywhere. Speaks Spanish well. Single, aged 38. Box 385, **DRUG & CHEMICAL MARKETS.**

RESPONSIBLE POSITION required. Conversant with Heavy, Technical and Pharmaceutical chemicals. Am competent in Accounting, Credits, Purchasing and Selling. Box 385, **DRUG & CHEMICAL MARKETS.**

HELP WANTED

SALESMAN—Synthetic flower oils and compounds for soap and perfumery manufacturers. State experience, salary and commission expected. D. P. Co., 3 Horatio Street, New York City.

WANTED by Dyestuff Manufacturer, an assistant in testing and standardizing of Dyestuffs. State fully—experience, references and salary expected. Box 369, **DRUG & CHEMICAL MARKETS.**

CHEMICAL EQUIPMENT

50 ALUMINUM KETTLES
 50—80 gal. Kettles, complete.

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 2—36-in. Copper Baskets.
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 2—60-in. Steel Rubber Lined.

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 10—Gordon Tray and Truck Dryers.
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 10—Other Vacuum Dryers.

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 3—6 x 6 Oliver Filter.
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SALESMAN—Experienced Pharmaceutical and Specialty man for old established and progressive house to cover part of Massachusetts, calling upon retail trade, doctors and hospitals. Salary and Commission. Give references and say how soon available. Box 373, DRUG & CHEMICAL MARKETS.

WANTED—For position of Purchasing Agent, a chemist or engineer by large chemical manufacturing corporation in East. Preference given to experienced man. State age, training, experience, references and salary expected. Box 399, DRUG & CHEMICAL MARKETS.

SALESMAN—Experienced selling industrial chemicals to paint, varnish, rubber, leather, and kindred industries by established New York Importing house. State fully experience and references. Box 396, DRUG & CHEMICAL MARKETS.

SALESMAN—Experienced, who has called on the trade in the mid-west, such as paint and varnish manufacturers, textile, tanning and rubber industries. All replies will be confidential. This is steady road work and an exceptional proposition can be made to a man who can show results. Please state age, salary desired and other necessary details. Box 400, DRUG & CHEMICAL MARKETS.

HELP WANTED

EXPERIENCED SALESMAN—For general line of heavy chemicals wanted at once. Must have record as a producer of business. Write fully in confidence. Box 390, DRUG & CHEMICAL MARKETS.

COAL TAR PRODUCTS—Young man thoroughly familiar with the sale of Basic Coal Tar products required by old established Chemical House. State full details covering qualifications, experience and remuneration desired. Box 388, DRUG & CHEMICAL MARKETS.

WANTED TABLET COATER—Man experienced in coating medicinal tablets. Give full particulars in first letter. Robert McNeil, 2351 N. Reese St., Philadelphia.

DRUGS & CHEMICALS

OFFER—Barrel (470 lbs.) White Arsenic; for quick buy 1½¢ lb. 100 lb. lots 15¢. Vogel, Madriver St., Dayton, Ohio.

FOR SALE—Odd lots and surplus stocks of Drugs, Chemicals, Pharmaceuticals, Toilet Preparations and miscellaneous items. Box 377, DRUG & CHEMICAL MARKETS.

DRUGS & CHEMICALS

WANTED FOR EXPORT—Carload of Culver's Root in double bags, quote best price F.A.S. New York. Box 382, DRUG & CHEMICAL MARKETS.

PLANT EQUIPMENT

FOR SALE—Used machinery, all in A-1 condition. 2 "N" Stokes Tablet Machines; 1 No. 2 J H Day Ointment Mill; 1 J H Day Mixer; 1 22" Burkhard Copper Jacketed Steam Kettle with standards. Box 397, DRUG & CHEMICAL MARKETS.

WANTED: No. 3 W. T. Co. Suppository machine used but in good condition. Western Chemical Company, Hutchinson, Minn.

MISCELLANEOUS

ASK THE Bureau of Employment of the Chemists' Club (Agency) 52 East 41st Street, New York City. If you need a chemist (man or woman) for the laboratory or works. If you wish a position for the practice of your profession. No charge to employers. Moderate fee to applicants. Prof. Herbert R. Moody, Chairman Club Committee.



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For full particulars as to products and addresses see Index of Advertisers on the page following.

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Chilean Nitrate Committee	A. Klipstein & Co.
Church & Dwight	Meteor Products Co.
The Cleveland-Cliffs Iron Co.	Mathieson Alkali Works Inc.
Contact Process Co.	The Miner-Edgar Co.
Chas. Cooper & Co.	Monsanto Chemical Works,
Diamond Alkali Co.	Clarence Morgan & Co.
The Dow Chemical Co.	Henry W. Peabody & Co.
E. I. du Pont de Nemours & Co.	Nichols Copper Co.
Ellis Jackson & Co.	Pfaltz & Bauer
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General Chemical Co.	Seaboard Chemical Co.
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Harshaw, Fuller & Goodwin Co.	Victor Chemical Works
Hans Hinrichs Chem. Corp.	The Warner Chemical Co.
Edward Hill's Son & Co.	Wilkes-Martin-Wilkes Co.
T. C. Hoelzer Co.	Isaac Winkler & Bro. Co.
Industrial Chemical Co.	Jacques Wolf & Co.
International Salt Co.	

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David Berg Industrial Alcohol Co.	Mathieson Alkali Wks., Inc.
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Darco Sales Corp.	Monsanto Chemical Works
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The Dow Chemical Co.	N. Y. Quinine & Chem. Works
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Hoffman-La Roche Chem. Wks.	Ungerer & Co.
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Dow Chemical Co.	H. A. Metz & Co.
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Essex Aniline Works	Newport Chemical Works
E. I. du Pont de Nemours & Co.	Pharma-Chemical Corp.
Ellis Jackson & Co.	Southern Dyestuffs Co.
A. Klipstein & Co.	Jacques Wolf & Co.
Gary Chem. Co.	

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Delphi Products, Inc.	Ungerer & Co.
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ANNOUNCEMENT

The manufacturers of FILTCHAR and SUPER-FILTCHAR take pleasure in introducing to their customers and the consuming trades in general their new Decolorizing and Deodorizing Carbon:



NUCHAR represents the result of ten years research and experience in the decolorizing field and is pre-eminent among activated carbons. Produced by a unique process, it possesses unsurpassed power for the removal of impurities that cause objectionable color and odor in Food, Medicinal and other products. It is exceptionally pure. It filters rapidly and easily. It forms, therefore, the ideal carbon for the treatment of all high-grade products.

We solicit your interest in NUCHAR on the basis of

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EFFICIENCY
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Any samples required will be furnished promptly and our Technical Department will be glad to co-operate and advise on any specific decolorizing and deodorizing problem, without charge.

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